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ILLINOIS CORN PERFORMANCE TESTS . . *Results for 1936*



University of Illinois • Agricultural Experiment Station

Bulletin 429

In cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U.S. Department of Agriculture, and the Illinois State Natural History Survey

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Illinois Corn Performance Tests

Results for 1936

By G. H. DUNGAN, J. R. HOLBERT, W. J. MUMM, J. H. BIGGER,
and A. L. LANG¹

FIELD PERFORMANCE tests conducted as a part of the corn-improvement program of the Illinois Agricultural Experiment Station in cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U. S. Department of Agriculture, and the Illinois State Natural History Survey, have provided the data reported in this bulletin. The present report is the third to be published, the results for 1934 and 1935 having been reported in Bulletins 411 and 427 of this Station.

SCOPE OF THE TESTS

Two hundred thirty-four different kinds of corn were tested in the twenty-one fields in 1936. Of these, 38 were open-pollinated varieties and 196 were hybrids.

In the accompanying tables these entries are grouped into two general classes designated as "Regular" and "Experimental." The regular entries comprize those that may be considered as being in commercial production, 100 bushels or more of seed being available for planting in 1937 or having been available in that amount in previous years.

In the experimental group are included those hybrids of which only small amounts of seed have been produced and which, for this reason, are not available for commercial planting. Of the hybrids included in the tests, 118 were experimental.

At least five locally adapted open-pollinated varieties were included in each of the fifteen fields in the grain-testing group. In the silage tests and the tests made on soils varying in productivity, at least one good open-pollinated variety was included. The performance of the open-pollinated entries furnishes a standard for evaluating that of the hybrids.

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LOCATION OF FIELDS

Testing fields were located in the same general areas of the state as in 1935. Some of them were on the same farms as those of last year. Again the selection of accessible places and good, cooperatively



Location of 1936 Test Fields

minded farmers resulted in obtaining fields relatively high in productivity.

The accompanying map shows the location of the fields, and in Table 1 is given some general information about them.

TABLE 1.—GENERAL INFORMATION: ILLINOIS COOPERATIVE CORN PERFORMANCE TESTS, 1936

Location of field	County	Cooperator	Number of entries	Date planted	Date harvested	Average yield, all entries—	
						Total	Sound
<i>Grain tests</i>						<i>bu.</i>	<i>bu.</i>
Mundelein....	Lake.....	Earl Kane.....	36	May 20-21	Oct. 8	56.5	55.9
Stockton.....	JoDavies....	Homer Curtiss.....	52	May 14	Nov. 24	76.2	71.1
Kings.....	Ogle.....	Elmer Hayes.....	52	May 15	Nov. 18	51.5	50.1
Plainfield....	Will.....	Clyde McAllister.....	52	May 16	Nov. 20	41.2	39.9
Cambridge....	Henry.....	L. L. Angevine.....	60	May 8	Nov. 12	47.0	45.7
Henry.....	Marshall....	Theodore Bogner.....	60	May 11	Nov. 17	43.5	39.4
Dwight.....	Livingston...	John Hahn.....	60	May 9	Nov. 7	59.5	58.8
Adair.....	McDonough..	Herndon Bros.....	60	May 8	Oct. 30	37.9	36.7
Stanford.....	McLean.....	Victor Brenneinan.....	60	May 9	Nov. 5	53.9	52.4
Armstrong....	Vermilion...	James Dewey.....	60	May 18-20	Nov. 10	32.1	31.3
Franklin.....	Morgan.....	Chas. Gibson.....	40	May 15	Oct. 29	14.7	14.2
Sullivan.....	Moultrie....	Francis Murphy.....	40	May 14	Oct. 27	34.1	32.7
Alhambra.....	Madison.....	Illinois Station, Agronomy...	33	May 19	Oct. 19	8.4	8.3
Edgewood.....	Effingham...	F. V. Wilson.....	27	May 12	(*)	(*)	(*)
Albion.....	Edwards.....	Lorin Jack and Son.....	30	May 20	Oct. 20	32.3	31.3
<i>Silage tests</i>						<i>tons</i>	<i>tons</i>
Maple Park...	DeKalb.....	J. Berkes.....	21	May 23-25	Sept. 29	3.36	....
Urbana.....	Champaign...	Dairy Department, U. of I...	19	May 7-June 4	Aug. 26-Sept. 16	2.57	....
<i>Soil-adaptation tests</i>						<i>bu.</i>	<i>bu.</i>
Sibley.....	Ford.....	Sibley Estate, Farm 41.....	25	May 15	Oct. 27	57.4	55.2
Sibley.....	Ford.....	Sibley Estate, Farm 92.....	25	May 20	Oct. 27	27.0	25.4
Urbana.....	Champaign...	Illinois Station, S.W. Rotation	18	May 11	Oct. 28	53.1	52.3
Urbana.....	Champaign...	Illinois Station, S.C. Rotation	18	May 9	Oct. 28	42.8	41.5

*Corn on Edgewood field was a failure because of excessive drouth and heat damage.

SEASONAL CONDITIONS

Favorable conditions for the growth of corn prevailed at planting time and during the fall of 1936, but the summer was characterized by extreme heat and drouth. This condition was most severe in the central two-thirds of the state. The low average yields on some of the fields recorded in Table 1 are an indication of the unfavorableness of the season.

INSECT PROBLEMS

The weather, tho unfavorable for corn, was nearly ideal for the development of outbreaks of chinch bugs and grasshoppers. Numerous areas in north-central, central, and south-central Illinois suffered from the attacks of these two insects, and several of the testing fields were seriously affected.

At Cambridge, in the north-central section, one-fifth of the field was not harvested because of grasshopper damage and the remainder of the field showed scattered spots of feeding. Grasshoppers were also responsible for the abandonment of the entire eastern half of the field at Stanford and for a spotty condition in the remainder of the field.

Both chinch bugs and grasshoppers were present in outbreak pro-

portions on the Franklin field, and the records from this field should be examined with this fact in mind. Unfortunately the same strain of corn is not always resistant to more than one kind of insect, but the outstanding entries on the Franklin field must be considered as resistant to both chinch bugs and grasshoppers, as well as to drouth.

Part of the field at Sullivan was heavily infested with chinch bugs, and some valuable information regarding the resistance to this insect of the strains planted there is furnished by the data from this field.

METHOD OF PLANTING

The methods of conducting the 1936 tests were similar to those used in 1934 and 1935. In order that the trials might be carried on under actual farm conditions, all plots in the grain-testing group were located within a larger cornfield. The test corn was planted by hand on the day the rest of the field was planted. The rows were joined with those of the surrounding corn so that the test plots could be cultivated along with the rest of the field.

On most fields each entry (variety or hybrid) occupied 10 plots, each plot being 12 hills long and 2 rows wide. At Stockton and at Cambridge, however, the plots were 10 hills long instead of 12. The entries were arranged in the controlled random order, as described in Bulletin 427. With only a few exceptions, all 10 plots of each entry were harvested and the yield of grain from each plot included in determining performance ratings. Uneven insect damage justified leaving portions of two fields unharvested. At Stanford five plots and at Cambridge two plots of each entry were not harvested for this reason. At Albion six plots of each entry were abandoned because of uneven stand.

The silage testing plots were planted with a regular corn planter in strips across the field, an open-pollinated variety being planted on every third or fourth plot to serve as a check.

MEASURING PERFORMANCE OF ENTRIES

The entries in 1936 were rated, as in 1935, according to two measures of performance—lodging resistance and yield of sound corn.

Lodging Resistance. Lodging resistance was measured in the following way. Just before harvest each plot on the field was examined and the percentage of erect plants estimated. The percentage of erect plants for a given entry was then computed from the estimates of all

the replications of that entry. The rating on relative lodging resistance is the ratio, expressed as percentage, of the percentage of erect plants for that entry to the average percentage of erect plants for all the entries on the field.

Sound Yield. The entire yield from one replication of each entry was shelled to determine shelling percentage. The corn was usually shelled on the day it was husked. Ears that were too moist to shell at harvest time were dried with forced heated air and shelled later. All the shelled corn from a plot was poured thru a divider and a representative sample, consisting of one-eighth of the original quantity, taken. This sample was divided into two equal lots, one of which was used for a moisture test and the other dried and reserved for a determination of damaged corn.

Most of the moisture determinations were made with a Tag-Heppenstall moisture meter within a few days after the samples were taken. The corn from a few fields was too high in moisture to be tested by this apparatus. When this occurred, the moisture was determined by drying the corn in an electric oven at 100° C. for 48 hours.

The samples taken for determination of damaged corn were stored for a time in a heated dryer. The percentage of damaged kernels, by weight, was determined in either a 200- or a 250-gram sample of the grain, according to the Federal Grain Grade standards.

The acre-yield of sound corn was computed from the total acre-yield and the percentage of sound corn.

The rating on sound yield of an entry is the ratio, expressed as percentage, of the yield of sound corn for that entry to the average yield of sound corn for all the entries on the field.

General Performance Rating. In computing the general performance rating of an entry, the ratings for lodging resistance and sound corn were averaged, but the sound-corn rating was given three times the weight of the rating on lodging resistance, since differences in yield are more important than differences in lodging resistance.

RESULTS OF THE TESTS

Grain Tests. Data on total yield of grain, sound corn, damaged corn, moisture in corn at harvest, and percentage of erect plants, together with performance ratings, are given in Tables 2 to 19, starting with the tests made in northern Illinois and moving south.

A summary of the performance of the entries that were tested in both 1935 and 1936 is given in Tables 20 to 23.

In all sections of the state the best hybrids again demonstrated their superiority over the best open-pollinated varieties. The yield of the five best hybrids in the northern, north-central, central, and south-central sections of the state exceeded that of the five best open-pollinated varieties by 15.7 bushels of sound corn per acre, or by over 46 percent.

Silage Tests. Two silage tests of corn varieties and hybrids were made in 1936. The fields were located near Maple Park in DeKalb county and at Urbana¹ in Champaign county.

The corn was drilled with a corn planter in the regular way, in strips running the length of the field. At Urbana every third strip was planted with Station Yellow Dent and at Maple Park every fourth strip was planted with Western Plowman. These two open-pollinated varieties served as a check.

The general performance rating of the various entries was based on total yield of dry matter and lodging resistance. Total weight of dry matter was given three times the weight of lodging resistance.

The best hybrid entries in the silage tests surpassed the open-pollinated entries in total yield of silage as well as in grain fraction, or feeding value. Data on yield and performance rating are given in Tables 24 and 25.

Soil-Adaptation Tests. As in 1935 some of the better hybrids, along with Station Yellow Dent as a check, were grown on soils varying in productivity. The difference in the productivity of the areas used was due either to characteristics inherent in the soil itself or to the farming practices used or to both.

In the Sibley test (Table 26) the high level of productivity is represented by Farm 41 and the lower level by Farm 92. The area selected for the test on Farm 92 is high, somewhat eroded, and the soil a poor grade of Elliott silt loam. The area on Farm 41 is a highly productive Proctor silt loam.

The two areas selected for the Urbana tests (Table 27) are different in productivity because of the long-continued use of different rotations. Corn, oats, clover, and wheat, with a clover catch crop in the wheat, make up the Southwest rotation. Corn, corn, corn, and soybeans constitute the South-Central rotation. More limestone has been applied to the Southwest rotation; otherwise the supplementary treatments on these two areas have been very similar.

Owing to adverse and variable seasonal conditions, comparisons

¹The field at Urbana was grown in cooperation with the Department of Dairy Husbandry.

between fields are not so representative as they were in the previous year's work. Farm 41 at Sibley was the more favored in respect to moisture supply than Farm 92. Both fields at Urbana suffered more from drouth during the critical growing period than did either of the fields at Sibley. Nevertheless the same general conclusions that were made in 1935 hold true for this year's work; namely, that the better hybrids are favored by a good soil to a greater extent than are open-pollinated varieties.

(Grain tests—Tables 2 to 19)

TABLE 2.—MUNDELEIN, NORTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	DeKalb Hybrid 518.....	69.0	68.5	.7	35.8	75.5	113.4	122.6	120.3
2	DeKalb Hybrid 530.....	63.9	63.8	.2	36.7	73.5	110.4	114.2	113.3
3	DeKalb Hybrid 4A.....	61.3	60.7	.9	40.2	81.5	122.4	108.6	112.1
4	DeKalb Hybrid 93.....	62.1	61.8	.5	34.3	74.0	111.1	110.6	110.7
5	Illinois Hybrid 751R.....	61.6	61.0	.9	37.5	72.0	108.1	109.2	108.9
6	DeKalb Hybrid 3A.....	59.9	59.5	.6	32.8	74.5	111.9	106.5	107.9
7	DeKalb Hybrid 55.....	60.7	58.2	4.3	34.9	71.5	107.4	104.2	105.0
8	Kane White Dent.....	53.6	52.0	2.9	35.9	57.5	86.4	93.1	91.4
9	Gunn Western Plowman.....	51.0	50.0	1.9	38.0	51.0	76.6	89.5	86.3
●	Average of 5 best open-pollinated var.....	46.4	45.5	1.9	36.4	47.5	71.3	81.4	78.9
10	Eckhardt Western Plowman (Barbak).....	45.6	44.6	2.2	35.3	49.0	73.6	79.8	78.3
11	Eckhardt Western Plowman (untreated).....	44.8	44.5	.7	36.7	45.0	67.6	79.7	76.7
12	Eckhardt Western Plowman (Semesan Jr.).....	45.0	43.5	3.3	35.8	46.0	69.1	77.9	75.7
13	Wisconsin 13.....	42.8	42.7	.3	32.6	37.5	56.3	76.4	71.4
14	Huebsch Golden Glow.....	38.8	38.0	2.0	40.3	42.5	63.8	68.0	67.0
15	Huebsch Murdock Yellow Dent.....	32.9	32.3	1.7	36.7	48.0	72.1	57.8	61.4
	Average of division.....	52.9	52.1	1.5	36.2	59.9	90.0	93.2	92.4
Experimental division—entries <i>not</i> in commercial production									
1	Funk Hybrid B-31.....	67.0	66.7	.5	35.3	75.0	112.7	119.4	117.7
2	Illinois Hybrid 312.....	65.3	64.8	.7	37.1	68.0	102.1	116.0	112.5
3	Illinois Hybrid 171.....	60.6	60.2	.6	34.0	81.0	121.7	107.8	111.3
4	Illinois Hybrid 318.....	60.9	60.6	.5	34.9	79.5	119.4	108.5	111.2
5	Illinois Hybrid 322.....	64.2	63.9	.4	32.5	64.0	96.1	114.4	109.8
6	Illinois Hybrid 191.....	59.3	58.8	.9	32.4	82.0	123.2	105.2	109.7
7	Illinois Hybrid 895.....	59.8	59.4	.6	32.6	75.5	113.4	106.3	108.1
8	Illinois Hybrid 181.....	59.3	59.3	0	35.3	73.0	109.6	106.1	107.0
9	Illinois Hybrid 316.....	56.5	56.0	.9	36.8	82.5	123.9	100.2	106.1
10	Funk Hybrid B-30.....	61.1	60.0	1.8	41.7	66.5	99.9	107.4	105.5
11	Illinois Hybrid 193.....	58.7	58.3	.6	30.8	72.0	108.1	104.4	105.3
12	Illinois Hybrid 179.....	58.3	58.1	.3	33.7	71.0	106.6	104.0	104.7
13	Illinois Hybrid 302.....	60.1	59.9	.3	37.0	60.0	96.1	107.2	104.4
14	Illinois Hybrid 334.....	58.3	57.2	1.8	35.1	72.0	108.1	102.4	103.8
15	Illinois Hybrid 896.....	57.3	57.0	.5	36.8	72.5	108.9	102.0	103.7
16	Funk Hybrid 605.....	58.7	58.3	.6	37.9	67.0	100.6	104.4	103.5
17	Funk Hybrid 604.....	59.7	59.3	.7	34.8	63.0	94.6	106.1	103.2
18	Illinois Hybrid 339.....	56.3	55.6	1.2	37.1	72.0	108.1	99.5	101.7
19	Funk Hybrid B-32.....	54.9	54.6	.6	35.5	67.0	100.6	97.7	98.4
20	Funk Hybrid B-33.....	54.7	53.3	2.5	39.8	66.0	99.1	95.4	96.3
21	Illinois Hybrid 333.....	50.2	48.8	2.8	36.3	64.0	96.1	87.3	89.5
	Average of division.....	59.1	58.6	.9	35.6	71.3	107.1	104.8	105.4
	Average of all entries.....	56.5	55.9	1.2	35.9	66.6	.....	.....	.....

TABLE 3.—NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT STOCKTON, KINGS, AND PLAINFIELD, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	DeKalb Hybrid 4A.....	66.4	65.2	1.8	22.5	83.6	107.6	118.8	116.0
2	Pioneer Hi-Bred 335.....	62.8	59.7	4.9	22.2	90.2	116.1	108.7	110.6
3	DeKalb Hybrid 518.....	64.4	62.1	3.6	22.7	77.5	99.7	113.1	109.8
4	DeKalb Hybrid 235.....	60.0	59.1	1.5	23.6	86.3	111.1	107.7	108.6
5	DeKalb Hybrid 530.....	61.5	60.1	2.3	23.0	82.2	105.8	109.5	108.6
6	Pioneer Hi-Bred 315.....	64.1	62.2	3.0	21.9	71.5	92.0	113.3	108.0
7	DeKalb Illinois Hybrid 364.....	67.1	61.5	8.3	25.1	73.5	94.6	112.0	107.7
8	DeKalb Illinois Hybrid 368.....	61.1	58.5	4.3	23.2	84.7	109.0	106.6	107.2
9	Lazier Illinois Hybrid 368.....	60.4	57.9	4.1	23.7	86.8	111.7	105.5	107.1
10	Illinois Hybrid 751.....	59.9	57.3	4.3	23.6	85.8	110.4	104.4	105.9
11	DeKalb Hybrid 93.....	58.2	57.3	1.5	22.1	83.7	107.7	104.4	105.2
12	Pioneer Hi-Bred 311.....	61.5	57.3	6.8	21.0	83.3	107.2	104.4	105.1
13	Lazier Illinois Hybrid 366.....	61.0	58.0	4.9	24.3	77.8	100.1	105.6	104.2
14	DeKalb Hybrid 592.....	59.3	57.8	2.5	23.4	77.5	99.7	105.3	103.9
15	DeKalb Hybrid 3A.....	60.2	59.0	2.0	21.3	69.7	89.6	107.5	103.0
16	Iowa Hybrid 931.....	57.2	56.0	2.1	22.1	79.0	101.7	102.0	101.9
17	Pioneer Hi-Bred 325.....	60.9	54.5	10.5	22.4	84.0	108.1	99.3	101.5
18	Pioneer Hi-Bred 323.....	59.7	56.6	5.2	21.3	72.8	93.7	103.1	100.8
19	DeKalb Illinois Hybrid 366.....	57.5	54.5	5.2	23.7	80.8	104.0	99.3	100.5
20	DeKalb Hybrid 97.....	54.7	52.2	4.6	25.5	87.3	112.4	95.1	99.4
21	DeKalb Hybrid 495.....	55.1	53.8	2.4	22.9	80.3	103.3	98.0	99.3
22	DeKalb Hybrid 55.....	55.3	54.2	2.0	22.4	77.5	99.7	98.7	99.0
23	DeKalb Hybrid 119.....	56.9	55.5	2.5	22.6	70.2	90.3	101.1	98.4
24	Funk Hybrid 215.....	52.7	50.5	4.2	23.4	85.3	109.8	92.0	96.5
25	Iowa Hybrid 942.....	60.4	50.4	16.6	24.0	83.7	107.7	91.8	95.8
26	Iowearth Hybrid A.....	54.9	53.7	2.2	21.0	68.2	87.8	97.8	95.3
27	Funk Hybrid 214.....	51.5	49.1	4.7	24.7	84.7	109.0	89.4	94.3
28	DeKalb Hybrid 118.....	55.0	53.4	2.9	23.1	64.3	82.8	97.3	93.7
29	Eckhardt Western Plowman.....	49.2	47.6	3.3	21.6	60.0	77.2	86.7	84.3
30	Webb Will County Favorite.....	50.0	47.8	4.4	23.4	56.5	72.7	87.1	83.5
31	Simmons Yellow Dent (Semesan).....	47.2	44.7	5.3	23.8	62.7	80.7	81.4	81.2
32	Gunn Western Plowman.....	45.9	44.7	2.6	23.1	60.8	78.2	81.4	80.6
●	Average of 5 best open-pollinated var.....	47.7	45.4	4.8	23.3	57.8	74.4	82.7	80.6
33	Book Yellow Dent.....	46.1	42.1	8.7	24.4	48.8	62.8	76.7	73.2
	Average of division.....	57.5	55.0	4.3	23.0	76.4	97.6	99.6	99.1
Experimental division—entries not in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 345.....	61.6	59.2	3.9	23.9	90.0	115.8	107.8	109.8
2	Illinois Hybrid 319.....	62.2	60.2	3.2	23.7	83.3	107.2	109.7	109.1
3	Illinois Hybrid 313.....	60.5	58.6	3.1	23.3	85.7	110.3	106.7	107.6
4	Illinois Hybrid 320.....	58.2	56.6	2.7	22.5	86.7	111.6	103.1	105.2
5	Illinois Hybrid 197.....	60.8	59.5	2.1	22.1	73.5	94.6	108.4	105.0
6	National Hybrid 116.....	60.3	57.3	5.0	22.2	77.2	99.4	104.4	103.2
7	Illinois Hybrid 586.....	54.5	53.2	2.4	22.1	89.2	114.8	96.9	101.4
8	Illinois Hybrid 334.....	57.4	55.0	14.2	24.5	80.7	103.9	100.2	101.1
9	Iowearth Hybrid 15.....	56.7	53.9	4.9	22.2	83.0	106.8	98.2	100.4
10	National Hybrid 114.....	54.4	53.1	2.4	22.1	83.0	106.8	96.7	99.2
11	Illinois Hybrid 339.....	53.9	53.3	1.1	21.7	81.0	104.2	97.1	98.9
12	Illinois Hybrid 191.....	54.6	52.4	4.0	24.5	79.1	101.8	95.4	97.0
13	Michigan Hybrid 561.....	39.3	37.4	4.8	25.5	58.8	75.7	68.1	70.0
	Average of division.....	56.5	54.6	3.4	23.1	80.9	104.1	99.4	100.6
	Average of all entries.....	57.2	54.9	4.0	23.0	77.7	....	....	....

TABLE 4.—STOCKTON, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	DeKalb Hybrid 4A.....	91.5	89.0	2.7	21.7	99.0	104.0	125.2	119.9
2	Illinois Hybrid 751.....	85.5	82.4	3.6	22.9	100.0	105.0	115.9	113.2
3	DeKalb Hybrid 93.....	82.9	82.2	.8	22.5	99.0	104.0	115.6	112.7
4	Pioneer Hi-Bred 315.....	84.6	81.1	4.1	21.8	95.0	99.8	114.1	110.5
5	DeKalb Hybrid 235.....	80.3	78.3	2.5	22.6	99.0	104.0	110.1	108.6
6	DeKalb Hybrid 119.....	80.2	77.9	2.9	21.4	98.5	103.5	109.6	108.1
7	DeKalb Hybrid 530.....	79.7	77.3	3.0	22.5	96.0	100.8	108.7	106.7
8	Pioneer Hi-Bred 335.....	83.6	76.0	9.1	23.5	100.0	105.0	106.9	106.4
9	DeKalb Hybrid 518.....	83.0	75.4	9.2	22.2	99.5	104.5	106.0	105.6
10	Pioneer Hi-Bred 323.....	84.2	77.3	8.2	22.0	90.5	95.1	108.7	105.3
11	DeKalb Hybrid 55.....	78.0	75.5	3.2	22.4	97.5	102.4	106.2	105.3
12	DeKalb Hybrid 592.....	79.0	73.9	6.5	24.2	99.0	104.0	103.9	103.9
13	DeKalb Hybrid 3A.....	76.7	74.8	2.5	20.3	94.5	99.3	105.2	103.7
14	Lazier Illinois Hybrid 368.....	79.6	72.7	8.7	22.0	99.5	104.5	102.3	102.9
15	DeKalb Illinois Hybrid 364.....	84.6	72.7	4.1	23.9	99.0	104.0	102.3	102.7
16	Iowa Hybrid 931.....	73.4	72.4	1.4	22.9	98.5	103.5	101.8	102.2
17	DeKalb Hybrid 118.....	75.7	73.9	2.4	22.0	92.5	97.2	103.9	102.2
18	Lazier Illinois Hybrid 366.....	78.5	71.0	9.6	25.2	99.5	104.5	99.9	101.1
19	DeKalb Hybrid 495.....	74.1	71.7	3.2	23.9	96.5	101.4	100.8	101.0
20	DeKalb Hybrid 368.....	78.5	71.3	9.2	23.2	97.5	102.4	100.3	100.8
21	DeKalb Illinois Hybrid 366*	75.8	70.7	6.7	23.2	99.5	104.5	99.4	100.7
22	DeKalb Illinois Hybrid 366.....	75.8	71.0	6.3	23.2	98.0	102.9	99.9	100.7
23	Funk Hybrid 215.....	75.1	70.1	6.7	22.5	98.5	103.5	98.6	99.8
24	DeKalb Hybrid 97.....	76.9	69.1	10.1	26.5	98.5	103.5	97.2	98.8
25	Ioweleth Hybrid A.....	73.8	69.6	5.7	20.9	92.5	97.2	97.9	97.7
26	Pioneer Hi-Bred 311.....	78.6	67.2	14.5	20.7	98.5	103.5	94.5	96.8
27	Griffith Early Dent.....	70.3	66.5	5.4	23.2	94.0	98.7	93.5	94.8
28	Iowa Hybrid 942.....	81.3	63.8	21.5	23.9	97.0	101.9	89.7	92.8
29	Simmons Will County Favorite (Barbak)	69.1	64.6	6.5	24.2	87.0	91.4	90.9	91.0
30	Pioneer Hi-Bred 325.....	78.6	61.9	21.2	22.9	97.5	102.4	87.1	90.9
●	Average of 5 best open-pollinated var.....	67.8	64.1	5.5	22.7	85.5	89.8	90.2	90.1
31	Webb Will County Favorite.....	70.0	64.5	7.9	23.5	83.5	87.7	90.7	90.0
32	Gunn Western Plowman.....	63.6	63.3	.5	22.6	86.5	90.9	89.0	89.5
33	Funk Hybrid 214.....	66.8	59.8	10.5	25.9	98.0	102.9	84.1	88.8
34	Eckhardt Western Plowman.....	65.8	63.0	4.3	21.2	83.0	87.2	88.6	88.3
35	Simmons Will Co. Favorite (Semesan).....	69.1	62.6	9.4	22.9	80.5	84.6	88.0	87.2
36	Simmons Will Co. Favorite (untreated)	62.2	59.5	4.3	24.5	83.5	87.7	83.7	84.7
37	Book Yellow Dent.....	63.7	60.5	5.0	24.2	79.0	83.0	85.1	84.6
Average of division.....		76.5	71.2	6.9	22.9	94.7	99.5	100.1	100.0
Experimental division—entries not in commercial production									
1	Illinois Hybrid 319.....	86.7	83.9	3.2	23.9	100.0	105.0	118.0	114.8
2	Illinois Hybrid 197.....	85.2	80.9	5.0	21.4	99.0	104.0	113.8	111.4
3	Illinois Hybrid 345.....	83.7	78.4	6.3	24.2	100.0	105.0	110.3	109.0
4	Illinois Hybrid 320.....	82.2	78.7	4.3	22.9	98.5	103.5	110.7	108.9
5	National Hybrid 116.....	84.2	76.4	9.3	21.7	97.5	102.4	107.5	106.2
6	Illinois Hybrid 586.....	76.9	74.8	2.7	21.2	99.0	104.0	105.2	104.9
7	Illinois Hybrid 313.....	78.9	73.6	6.7	23.5	98.5	103.5	103.5	103.5
8	Illinois Hybrid 339.....	74.7	73.2	2.0	21.7	98.5	103.5	103.0	103.1
9	Illinois Hybrid 334.....	78.4	72.8	7.1	24.2	94.0	98.7	102.4	101.5
10	Illinois Hybrid 191.....	75.9	71.6	5.7	24.9	94.5	99.3	100.7	100.4
11	National Hybrid 114.....	70.0	69.0	1.4	22.0	99.5	104.5	97.0	98.9
12	Funk Hybrid 605.....	70.8	67.6	4.5	23.5	95.5	100.3	95.1	96.4
13	Ioweleth Hybrid 15.....	75.0	66.8	10.9	22.6	97.5	102.4	94.0	96.1
14	Illinois-Ioweleth Hybrid 20.....	55.6	48.0	13.7	25.9	95.0	99.8	67.5	75.6
15	Michigan Hybrid 561.....	51.1	46.9	8.2	23.2	75.5	79.3	66.0	69.3
Average of division.....		75.3	70.8	6.0	23.1	96.2	101.0	99.6	100.0
Average of all entries.....		76.2	71.1	6.7	23.0	95.2	....	....	....

*Planter box sample supplied by Homer Curtiss on whose farm the cooperative plot was conducted.

TABLE 5.—KINGS, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	DeKalb Hybrid 4A.....	67.2	65.8	2.1	24.5	56.0	96.1	131.3	122.5
2	Pioneer Hi-Bred 335.....	56.7	55.3	2.5	23.5	80.0	137.2	110.4	117.1
3	DeKalb Hybrid 3A.....	61.1	60.1	1.6	22.3	57.5	98.6	120.0	114.7
4	DeKalb Hybrid 518.....	59.6	59.0	1.0	24.2	60.5	103.8	117.8	114.3
5	DeKalb Hybrid 530.....	56.8	55.8	1.8	25.2	64.5	110.6	111.4	111.2
6	DeKalb Hybrid 235.....	56.6	56.1	.9	25.2	67.0	114.9	112.0	112.7
7	Pioneer Hi-Bred 315.....	59.5	58.3	2.0	22.8	55.0	94.3	116.4	110.9
8	DeKalb Hybrid 93.....	54.9	54.2	1.3	23.2	68.0	116.7	108.2	110.3
9	Lazier Illinois Hybrid 368.....	56.2	53.1	5.5	25.2	71.5	122.6	106.0	110.2
10	DeKalb Illinois Hybrid 368.....	56.3	55.2	2.0	23.2	62.5	107.2	110.2	109.5
11	DeKalb Illinois Hybrid 366.....	56.1	54.1	3.6	24.8	64.5	110.6	108.0	108.7
12	Lazier Illinois Hybrid 366.....	58.5	57.6	1.5	24.5	52.0	89.2	115.0	108.6
13	Pioneer Hi-Bred 323.....	55.5	54.3	2.2	22.3	61.5	105.5	108.4	107.7
14	DeKalb Illinois Hybrid 364.....	62.7	57.6	8.1	26.5	47.0	80.6	115.9	107.1
15	Pioneer Hi-Bred 311.....	54.0	53.0	1.9	22.8	64.0	109.8	105.8	106.8
16	DeKalb Hybrid 495.....	53.5	53.1	.7	23.8	62.5	107.2	106.0	106.3
17	Pioneer Hi-Bred 325.....	54.4	51.3	5.7	23.2	68.5	117.5	102.4	106.2
18	DeKalb Hybrid 55.....	50.9	50.7	.4	23.5	66.5	114.1	101.2	104.4
19	Iowa Hybrid 931.....	55.1	53.1	3.6	22.8	54.5	93.5	106.0	102.9
20	Iowa Hybrid 942.....	56.4	48.1	14.7	23.2	68.5	117.5	96.0	101.4
21	DeKalb Hybrid 97.....	48.6	47.8	1.6	25.2	69.0	118.4	95.4	101.2
22	DeKalb Hybrid 592.....	52.9	52.5	.8	23.5	49.5	84.9	104.8	99.8
23	DeKalb Hybrid 119.....	51.3	50.1	2.3	23.2	50.0	85.8	100.0	96.5
24	Iowaleth Hybrid A.....	51.0	50.8	.4	21.2	47.0	80.6	101.4	96.2
25	Illinois Hybrid 751R.....	47.0	44.8	4.7	25.8	65.5	112.3	89.4	95.1
26	Funk Hybrid 214.....	44.4	43.2	2.7	24.5	65.0	111.5	86.2	92.5
27	Eckhardt Western Plowman.....	49.7	47.9	3.6	22.3	46.0	78.9	95.6	91.4
28	Griffith Early Dent.....	43.8	43.3	1.1	22.5	57.5	98.6	86.4	89.5
29	Webb Will Co. Favorite (Semesan).....	48.4	47.7	1.4	23.2	41.0	70.3	95.2	89.0
30	Funk Hybrid 215.....	41.6	39.8	4.3	25.2	65.5	112.3	79.4	87.6
31	DeKalb Hybrid 118.....	46.3	45.0	2.8	24.8	46.5	79.8	89.8	87.3
32	Simmons Will Co. Favorite.....	44.7	43.9	1.8	24.8	46.5	79.8	87.6	85.7
33	Webb Will Co. Favorite (untreated).....	47.0	46.2	1.7	24.8	38.0	65.2	92.2	85.5
34	Gunn Western Plowman.....	45.2	42.9	5.1	23.8	44.0	75.5	85.6	83.1
35	Webb Will Co. Favorite (Barbak).....	45.0	44.0	2.2	24.2	37.0	63.5	87.8	81.7
●	Average of 5 best open-pollinated var.....	44.7	42.7	4.5	24.0	41.1	70.5	85.2	81.5
36	Hayes Krug.....	41.3	39.9	3.4	23.2	39.0	66.9	79.6	76.4
37	Book Yellow Dent.....	43.8	39.4	10.0	24.8	35.0	60.0	78.6	74.0
	Average of division.....	52.3	50.7	3.1	23.9	56.6	97.1	101.2	100.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 313.....	55.6	54.6	1.8	25.8	67.0	114.9	109.0	110.5
2	Illinois Hybrid 345.....	53.3	51.9	2.6	24.2	74.5	127.8	103.6	109.7
3	National Hybrid 116.....	55.4	55.1	.5	23.8	63.5	108.9	110.0	109.7
4	Iowaleth Hybrid 15.....	56.0	55.0	1.8	22.3	63.5	108.9	109.8	109.6
5	Illinois Hybrid 320.....	50.3	50.1	.4	21.5	77.5	132.9	100.0	108.2
6	National Hybrid 114.....	53.4	51.4	3.7	22.8	67.0	114.9	102.6	105.7
7	Illinois Hybrid 319.....	52.3	50.2	4.0	24.8	66.0	113.2	100.2	103.5
8	Illinois Hybrid 334.....	50.9	49.2	3.3	25.2	65.0	111.5	98.2	101.5
9	Illinois Hybrid 586.....	46.1	45.6	1.1	22.0	75.5	129.5	91.0	100.6
10	Illinois Hybrid 197.....	52.9	52.4	.9	23.8	46.0	78.9	104.6	98.2
11	Illinois Hybrid 339.....	46.7	46.3	.9	21.5	66.5	114.1	92.4	97.8
12	Funk Hybrid 604E.....	47.8	45.9	4.0	24.2	50.0	85.8	91.6	90.2
13	Illinois Hybrid 191.....	45.2	44.5	1.5	25.2	53.5	91.8	88.8	89.6
14	Illinois-Iowaleth Hybrid 20.....	42.4	41.8	1.4	22.9	59.5	102.1	83.4	88.1
15	Michigan Hybrid 561.....	36.5	35.7	2.2	27.6	45.0	77.2	71.3	72.8
	Average of division.....	49.7	48.6	2.2	23.8	62.7	107.5	97.0	99.7
	Average of all entries.....	51.5	50.1	2.7	23.9	58.3	....	....	....

TABLE 6.—PLAINFIELD, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	DeKalb Illinois Hybrid 364.....	54.0	52.5	2.8	25.0	74.5	98.7	131.6	123.4
2	Pioneer Hi-Bred 311.....	51.8	49.6	4.2	19.4	87.5	115.9	124.3	122.2
3	DeKalb Illinois Hybrid 368.....	48.4	47.5	1.9	23.2	94.0	124.5	119.0	120.4
4	DeKalb Hybrid 518.....	50.7	50.3	.8	21.8	72.5	96.0	126.1	118.6
5	Pioneer Hi-Bred 335.....	48.2	46.7	3.1	19.7	90.5	119.9	117.0	117.7
6	Pioneer Hi-Bred 325.....	49.6	47.3	4.6	21.0	86.0	113.9	118.5	117.4
7	DeKalb Hybrid 530.....	48.1	47.2	1.9	21.2	86.0	113.9	118.3	117.2
8	Illinois Hybrid 751.....	47.3	45.0	4.9	22.2	92.0	121.9	112.8	115.1
9	DeKalb Hybrid 592.....	46.0	45.9	.2	22.5	84.0	111.3	115.0	114.1
10	Lasier Illinois Hybrid 368.....	45.5	44.8	1.5	23.8	89.5	118.5	112.3	113.9
11	Funk Hybrid 214.....	43.2	42.9	.7	23.6	91.0	120.5	107.5	110.8
12	DeKalb Hybrid 235.....	43.1	42.6	1.2	23.0	93.0	123.2	106.7	110.8
13	Lasier Illinois Hybrid 366.....	46.0	44.3	3.7	23.3	82.0	108.6	111.3	110.6
14	Pioneer Hi-Bred 315.....	48.3	47.1	2.5	21.0	64.5	85.4	118.0	109.9
15	DeKalb Hybrid 4A.....	40.6	40.4	.5	21.2	96.0	127.2	101.2	107.7
16	Iowa Hybrid 931.....	43.0	42.4	1.4	20.5	84.0	111.3	106.3	107.6
17	Funk Hybrid 215.....	41.4	40.9	1.2	22.6	92.0	121.9	102.5	107.4
18	DeKalb Hybrid 97.....	38.7	38.1	1.6	24.8	94.5	125.2	95.4	102.9
19	Iowa Hybrid 942.....	43.4	37.6	13.4	24.8	85.5	113.2	94.2	99.0
20	DeKalb Illinois Hybrid 366.....	40.6	38.1	6.2	23.2	80.0	106.0	95.4	98.1
21	DeKalb Hybrid 118.....	43.1	41.6	3.5	22.6	54.0	71.5	104.2	96.0
22	Iowa Hybrid A.....	39.8	39.5	.8	21.0	65.0	86.1	99.0	95.8
23	DeKalb Hybrid 495.....	37.8	36.5	3.4	21.0	82.0	108.6	91.5	95.8
24	DeKalb Hybrid 93.....	36.8	36.0	2.2	20.5	84.0	111.3	90.2	95.5
25	DeKalb Hybrid 3A.....	42.9	40.6	5.4	21.2	57.0	75.5	101.7	95.2
26	Illinois-Iowa Hybrid 20.....	35.8	35.3	1.4	24.6	80.5	106.6	88.5	93.0
27	DeKalb Hybrid 119.....	39.1	38.2	2.3	23.2	62.0	82.1	95.7	92.3
28	Pioneer Hi-Bred 323.....	39.3	37.2	5.3	19.7	66.5	88.1	93.2	91.9
29	DeKalb Hybrid 55.....	36.9	36.0	2.4	21.4	68.5	90.7	90.2	90.3
30	Eckhardt Western Plowman (Semesan).....	32.2	31.6	1.9	21.2	51.0	67.5	79.2	76.3
31	McAllister Yellow Dent.....	36.0	33.0	8.3	23.8	35.0	46.4	82.7	73.6
32	Eckhardt Western Plowman (untreated).....	29.3	28.8	1.7	21.6	56.0	74.2	72.2	72.7
33	Eckhardt Western Plowman (Barbak).....	30.3	29.3	3.3	22.0	51.0	67.5	73.4	71.9
●	Average of 5 best open-pollinated var.....	30.8	29.5	4.2	23.1	49.8	66.0	73.9	71.9
34	Webb Will County Favorite.....	31.6	30.2	4.4	23.6	45.0	59.6	75.7	71.7
35	Simmons Will County Favorite.....	28.3	26.9	4.9	23.8	61.0	80.8	67.4	70.8
36	Gunn Western Plowman.....	28.9	28.2	2.4	22.8	52.0	68.9	70.7	70.3
37	Book Yellow Dent.....	30.7	27.3	11.1	24.2	32.5	44.0	68.4	62.3
	Average of division.....	41.0	39.7	3.2	22.3	73.6	97.5	99.4	98.9
Experimental division—entries not in commercial production									
1	Illinois Hybrid 313.....	47.0	46.7	.6	20.5	91.5	126.0	117.0	119.3
2	Illinois Hybrid 345.....	47.7	46.5	2.5	23.3	95.5	126.5	116.5	119.0
3	Illinois Hybrid 319.....	47.7	46.5	2.5	22.5	84.0	111.3	116.5	115.2
4	Illinois Hybrid 197.....	44.3	44.1	.5	21.2	75.5	100.0	110.5	107.9
5	Illinois Hybrid 334.....	43.0	42.1	2.1	24.2	83.0	109.9	105.5	106.6
6	Illinois Hybrid 191.....	42.8	40.8	4.7	23.5	89.5	118.5	102.3	106.4
7	Illinois Hybrid 320.....	42.1	40.7	3.3	23.0	84.0	111.3	102.0	104.3
8	Illinois Hybrid 586.....	40.5	39.1	3.5	23.0	93.0	123.2	98.0	104.3
9	Illinois Hybrid 339.....	40.4	40.1	.7	21.8	78.0	103.3	100.5	101.2
10	National Hybrid 114.....	39.9	39.2	1.8	21.6	82.5	109.3	98.2	101.0
11	Iowa Hybrid 15.....	39.0	38.2	2.1	21.6	88.0	116.6	95.7	100.9
12	National Hybrid 116.....	41.3	39.3	4.8	21.0	70.5	93.4	88.5	97.2
13	Funk Hybrid 602.....	35.6	35.2	1.1	21.8	55.0	72.8	88.2	84.4
14	Michigan Hybrid 561.....	30.4	29.2	4.9	25.6	56.0	74.2	73.2	73.5
	Average of division.....	41.6	40.6	2.4	22.5	80.4	106.9	101.6	102.9
	Average of all entries.....	41.2	39.9	3.1	22.4	75.5	....	....	....

TABLE 7.—NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT CAMBRIDGE, HENRY, AND DWIGHT, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 960.....	59.8	59.1	1.2	18.3	81.0	103.3	123.1	118.2
2	Illinois Hybrid 582.....	58.7	57.8	1.5	19.1	82.7	105.5	120.4	116.7
3	Funk Hybrid 212.....	55.4	54.3	2.0	18.2	84.5	107.8	113.1	111.8
4	DeKalb Illinois Hybrid 364.....	57.3	55.9	2.4	18.9	72.5	92.5	116.5	110.5
5	DeKalb Illinois Hybrid 366.....	54.1	53.3	1.5	18.1	82.6	105.4	111.0	109.6
6	Illinois Hybrid 360.....	51.9	51.1	1.5	18.7	86.5	110.3	106.5	107.5
7	Rishel-Lindquist Pfister Hybrid 4857.....	54.0	53.3	1.3	17.7	75.1	95.8	111.0	107.2
8	Shissler Illinois Hybrid 543.....	52.2	50.5	3.3	19.5	86.8	110.7	105.2	106.6
9	Iowaleth Hybrid C.....	53.7	52.4	2.4	18.6	77.1	98.3	109.2	106.5
10	Illinois Hybrid 936.....	51.9	50.7	2.3	19.9	83.6	106.6	105.6	105.9
11	Illinois Hybrid 570.....	51.6	50.9	1.4	18.1	80.9	103.2	106.0	105.3
12	Illinois Hybrid 546.....	50.7	49.0	3.4	18.9	89.6	114.3	102.1	105.2
13	Indiana Hybrid 608.....	51.4	49.1	4.5	18.3	87.4	111.5	102.3	104.6
14	Illinois Hybrid 751.....	50.6	50.3	.6	18.2	79.5	101.4	104.8	104.0
15	Iowaleth Hybrid 25.....	51.8	50.7	2.1	19.1	77.7	99.1	105.6	104.0
16	Illinois Hybrid 384.....	50.0	49.3	1.4	18.6	84.3	107.5	102.7	103.9
17	Funk Illinois Hybrid 384.....	49.8	49.3	1.0	18.3	83.2	106.1	102.7	103.6
18	Moews Illinois Hybrid 172.....	49.2	48.7	1.0	18.4	86.0	109.7	101.5	103.6
19	Illinois Hybrid 944.....	52.5	51.3	1.0	18.6	68.7	87.6	106.9	102.1
20	Indiana Hybrid 420.....	49.7	47.8	2.3	18.2	83.8	106.9	99.6	101.4
21	Iowaleth Hybrid CA.....	48.4	47.5	3.8	20.0	81.3	103.7	99.0	100.2
22	Iowa Hybrid 939.....	48.5	47.1	2.9	17.7	81.0	103.3	98.1	99.4
23	Illinois Hybrid 172.....	46.7	46.1	1.3	17.9	83.6	106.6	96.0	98.7
24	Funk Hybrid 215.....	46.8	46.1	1.5	17.6	81.5	104.0	96.0	98.0
25	Funk Illinois Hybrid 172.....	45.9	44.9	2.2	18.8	84.7	108.0	93.5	97.1
26	Illinois-Iowaleth Hybrid 25.....	49.9	47.5	4.8	19.1	72.0	91.8	98.9	97.1
27	Funk Hybrid 214.....	45.9	45.4	1.1	17.9	81.3	103.7	94.6	96.9
28	Pioneer Hi-Bred 311A.....	51.6	45.3	12.2	17.6	81.6	104.1	94.4	96.8
29	National Hybrid 119.....	47.2	46.3	1.9	16.8	75.2	95.9	96.5	96.4
30	Pioneer Hi-Bred 308.....	52.5	47.7	8.1	18.1	65.6	83.7	99.4	95.5
31	Iowaleth Hybrid CI.....	44.5	43.1	3.1	20.0	81.5	104.0	89.8	93.4
32	Illinois Hybrid 371.....	44.9	44.5	.9	18.6	73.8	94.1	92.7	93.1
33	Morgan-Wallace Hybrid 138 L. E.....	47.4	44.5	6.1	18.6	70.4	89.8	92.7	92.0
34	Pioneer Hi-Bred 311.....	48.4	42.5	12.2	19.1	80.3	102.4	88.5	92.0
35	DeKalb Hybrid 572.....	44.1	43.0	2.5	17.9	77.0	98.2	89.6	91.8
36	DeKalb Hybrid 592.....	45.5	44.5	2.2	17.7	68.2	87.0	92.7	91.3
37	DeKalb Hybrid 93.....	43.8	43.1	1.6	16.9	71.8	91.6	89.8	90.3
38	Morgan-Wallace Hybrid 106 L. E.....	45.2	43.6	3.5	17.8	67.1	85.6	90.8	89.5
39	McKeighan Yellow Dent.....	43.4	42.1	3.0	20.5	73.4	93.6	87.7	89.2
40	Station Yellow Dent.....	43.3	42.3	2.3	20.1	71.5	91.2	88.1	88.9
41	Illinois-Iowaleth Hybrid 20.....	42.7	42.4	.7	19.2	65.3	83.3	88.3	87.1
42	Funk Hybrid 220.....	39.8	38.8	2.5	18.4	74.2	94.6	80.8	84.3
43	Roeschley Yellow Dent.....	41.2	40.2	2.4	19.7	66.6	84.9	83.8	84.1
●	Average of 5 best open-pollinated var.....	41.0	39.6	3.4	19.2	69.1	83.1	82.5	83.9
44	Griffith Reid Yellow Dent.....	39.5	38.4	2.8	17.8	69.7	88.9	80.0	82.2
45	Queen of the Field.....	37.7	35.2	6.6	17.8	64.3	82.0	73.3	75.5
Average of division.....		48.7	47.3	2.9	18.5	77.6	99.1	98.5	98.6
Experimental division—entries not in commercial production									
1	Moews Hybrid 10.....	55.9	55.2	1.3	18.5	85.3	108.8	115.0	113.5
2	U. S. Hybrid 44.....	55.7	54.7	1.8	18.9	84.7	108.0	114.0	112.5
3	U. S. Hybrid 61.....	54.6	53.8	1.5	18.3	85.0	108.4	112.1	111.2
4	Illinois Hybrid 345.....	52.1	51.6	1.0	18.9	89.2	113.8	107.5	109.1
5	Moews Hybrid 8.....	54.1	53.4	1.3	19.9	79.2	101.0	111.3	108.7
6	Illinois Hybrid 174.....	54.0	52.9	2.0	17.8	81.3	103.7	110.2	108.6
7	U. S. Hybrid 45.....	56.0	53.1	5.2	20.0	80.5	102.7	110.6	108.6
8	Iowa Hybrid 3110.....	51.4	50.5	1.8	17.9	86.4	110.2	105.2	106.5
9	Illinois Hybrid 946.....	52.4	51.6	1.5	18.6	79.7	101.7	107.5	106.1
10	Illinois Hybrid 173.....	49.7	48.5	2.4	17.8	83.3	106.3	101.0	102.3
11	Morgan-Wallace Hybrid 358.....	44.2	41.6	5.9	17.4	77.2	98.5	86.7	89.7
12	Morgan-Wallace Hybrid 315.....	42.5	41.7	1.9	17.7	61.2	78.1	86.9	84.7
Average of division.....		51.9	50.7	2.3	18.5	81.1	103.4	105.7	105.1
Average of all entries.....		49.4	48.0	2.8	18.5	78.4	....	....	....

TABLE 8.—CAMBRIDGE, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 960.....	59.2	59.0	.3	20.4	94.4	110.0	129.1	124.3
2	DeKalb Illinois Hybrid 364.....	56.8	55.1	3.0	21.0	93.9	109.4	120.6	117.8
3	Illinois Hybrid 582.....	56.0	55.1	1.6	21.0	93.1	108.5	120.6	117.6
4	Schlesler Illinois Hybrid 543.....	54.9	53.4	2.7	22.1	92.5	107.8	116.8	114.6
5	DeKalb Illinois Hybrid 366.....	52.7	51.8	1.7	20.7	91.9	107.1	113.3	111.8
6	Funk Hybrid 212.....	53.4	51.7	3.2	20.0	91.1	106.2	113.1	111.4
7	Iowearth Hybrid C.....	53.1	51.9	2.3	20.7	83.8	97.7	113.6	109.6
8	Illinois Hybrid 570.....	52.5	52.1	.8	19.0	78.3	91.3	114.0	108.3
9	Rishel-Lindquist Pfister Hybrid 4857.....	52.3	51.7	1.1	19.4	79.4	92.5	113.1	108.0
10	Moews Illinois Hybrid 172.....	49.5	48.5	2.0	20.4	91.1	106.2	106.1	106.1
11	Illinois Hybrid 936.....	49.1	47.8	2.6	22.0	93.8	109.3	104.6	105.8
12	Illinois Hybrid 944.....	51.5	49.9	3.1	19.8	75.6	88.1	109.2	103.9
13	Illinois Hybrid 384.....	47.5	47.0	1.1	16.4	90.0	104.9	102.8	103.3
14	Illinois Hybrid 751.....	47.6	47.5	.2	20.4	84.4	98.4	103.9	102.5
15	Indiana Hybrid 608.....	47.3	45.7	3.4	20.7	93.8	109.3	100.0	102.3
16	Illinois Hybrid 546.....	48.4	46.5	3.9	20.2	88.8	103.5	101.8	102.2
17	Funk Illinois Hybrid 384.....	46.3	45.9	.9	19.4	88.1	102.7	100.7	101.2
18	Illinois Hybrid 360.....	47.2	46.0	2.5	20.9	86.9	101.3	100.7	100.9
19	Iowa Hybrid 939.....	46.6	45.8	1.7	20.0	86.9	101.3	100.2	100.5
20	Pioneer Hi-Bred 308.....	53.2	47.8	10.2	20.7	75.7	88.2	104.6	100.5
21	Pioneer Hi-Bred 311A.....	51.8	45.8	11.6	18.8	86.9	101.3	100.2	100.5
22	Indiana Hybrid 420.....	47.2	45.6	3.4	19.0	87.5	102.0	99.8	100.4
23	Iowearth Hybrid 25.....	47.3	46.2	2.3	22.4	83.1	96.9	101.1	100.1
24	Illinois-Iowearth Hybrid 25.....	48.0	45.4	5.4	20.7	80.0	93.2	99.3	97.8
25	Funk Hybrid 215.....	44.3	43.8	1.1	19.0	86.9	101.3	95.8	97.2
26	Iowearth Hybrid CA.....	43.3	42.7	1.4	23.7	87.5	102.0	93.4	95.6
27	Funk Hybrid 214.....	44.0	43.3	1.6	20.2	84.4	98.4	94.7	95.6
28	Illinois Hybrid 371.....	42.9	42.4	1.2	21.5	88.3	102.9	92.8	95.3
29	Illinois Hybrid 172.....	42.5	42.2	.7	19.2	88.8	103.5	92.3	95.1
30	National Hybrid 119.....	44.0	43.2	1.8	18.8	82.5	96.2	94.5	94.9
31	Iowearth Hybrid CI.....	43.1	41.9	2.8	21.5	89.4	104.2	91.7	94.8
32	Funk Illinois Hybrid 172.....	43.3	42.1	2.8	20.7	87.5	102.0	92.1	94.6
33	DeKalb Hybrid 572.....	43.1	42.1	2.3	19.4	85.0	99.1	92.1	93.9
34	DeKalb Hybrid 592.....	42.5	42.0	1.2	20.2	85.0	99.1	91.9	93.7
35	Pioneer Hi-Bred 311.....	47.2	41.2	12.7	22.7	89.4	104.2	90.2	93.7
36	Morgan-Wallace Hybrid 138 L. E.....	45.7	41.9	8.3	20.2	78.1	91.4	91.7	91.6
37	Funk Hybrid 220.....	39.2	38.3	2.3	20.7	92.5	107.8	83.8	89.8
38	DeKalb Hybrid 93.....	40.1	39.6	1.2	17.6	83.3	97.1	86.7	89.3
39	Station Yellow Dent.....	41.2	40.6	1.5	21.7	77.5	90.3	88.8	89.2
40	McKeighan Yellow Dent (untreated).....	41.5	40.4	2.7	23.4	77.2	90.0	88.4	88.8
41	McKeighan Yellow Dent (Barbak).....	40.3	39.3	2.5	22.7	82.8	96.5	86.0	88.6
42	McKeighan Yellow Dent (Semesan).....	40.4	38.7	4.2	23.0	83.3	97.1	84.7	87.8
43	Morgan-Wallace Hybrid 106 L. E.....	41.2	39.2	4.9	20.0	79.4	92.5	85.8	87.5
44	Roschley Yellow Dent.....	38.7	38.0	1.8	21.9	78.8	91.8	83.2	85.4
45	Illinois-Iowearth Hybrid 20.....	36.7	36.4	.8	21.3	84.4	98.4	79.6	84.3
●	Average of 5 best open-pollinated var.....	37.3	36.0	3.5	21.2	79.5	92.7	77.8	81.5
46	Griffith Early Dent.....	33.6	32.8	2.4	18.5	81.1	94.5	71.8	77.5
47	Queen of the Field.....	32.5	30.0	7.7	20.7	76.9	89.6	65.6	71.6
Average of division.....		46.2	44.8	3.0	20.6	85.6	99.7	98.0	98.4
Experimental division—entries not in commercial production									
1	Moews Hybrid 8.....	58.3	58.1	.3	21.2	90.0	104.9	126.9	121.4
2	U. S. Hybrid 61.....	55.4	54.7	1.3	20.2	92.5	107.8	119.7	116.7
3	U. S. Hybrid 44.....	55.0	54.2	1.5	20.2	90.6	105.6	118.6	115.4
4	U. S. Hybrid 45.....	54.2	53.2	1.8	22.1	90.0	104.9	116.4	113.5
5	Illinois Hybrid 946.....	51.8	51.4	.8	20.9	78.1	91.0	112.5	107.1
6	Moews Hybrid 10.....	51.5	51.3	.4	19.8	76.3	88.9	112.3	106.5
7	Iowa Hybrid 3110.....	49.7	48.8	1.8	19.4	90.6	105.6	106.8	106.5
8	Illinois Hybrid 174.....	50.0	47.7	4.6	20.4	95.0	110.7	104.4	106.0
9	Illinois Hybrid 345.....	48.6	47.9	1.4	19.4	93.1	108.5	104.8	105.7
10	Illinois Hybrid 173.....	49.5	48.8	1.4	20.2	82.8	96.5	106.8	104.2
11	Morgan-Wallace Hybrid 315.....	40.2	39.2	2.5	19.6	77.2	90.0	85.8	86.9
12	Morgan-Wallace Hybrid 358.....	38.6	34.6	10.4	19.6	85.6	99.8	75.7	81.7
Average of division.....		50.2	49.2	2.0	20.3	86.8	101.2	107.6	106.0
Average of all entries.....		47.0	45.7	2.8	20.5	85.8	....	....	....

TABLE 9.—HENRY, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 582.....	51.8	51.1	1.4	19.0	80.5	106.6	129.7	123.9
2	Illinois Hybrid 960.....	52.4	50.8	3.1	18.2	74.0	98.0	128.9	121.2
3	Henry County Pfister Hybrid 4857.....	50.9	49.6	2.6	16.8	72.0	95.4	125.9	118.3
4	Rishel-Lindquist Pfister Hybrid 4857.....	48.3	47.4	1.9	17.2	75.0	99.3	120.3	115.1
5	Illinois Hybrid 570.....	45.9	44.5	3.1	18.0	89.5	118.5	112.9	114.3
6	Illinois Hybrid 936.....	48.1	46.0	4.4	19.0	77.0	102.0	116.8	113.1
7	Funk Hybrid 212.....	45.9	44.7	2.6	17.8	82.0	108.6	113.5	112.3
8	Illinois Hybrid 360.....	43.7	43.0	1.6	18.6	87.0	115.2	109.1	110.6
9	DeKalb Illinois Hybrid 366.....	45.3	44.1	2.6	17.1	79.5	105.3	111.9	110.3
10	Iowalth Hybrid 25.....	45.2	44.2	2.2	17.5	78.5	104.0	112.2	110.2
11	Moews Illinois Hybrid 172.....	41.8	41.3	1.2	17.7	88.5	117.2	104.8	107.9
12	DeKalb Illinois Hybrid 364.....	48.2	46.4	3.7	18.4	56.5	74.8	117.8	107.1
13	Illinois Hybrid 751.....	43.0	42.6	.9	17.8	74.5	98.7	108.1	105.8
14	Iowalth Hybrid C.....	44.4	42.4	4.5	18.9	72.5	96.0	107.6	104.7
15	Illinois Hybrid 546.....	41.3	39.2	5.1	19.5	88.0	116.6	99.5	103.8
16	Illinois Hybrid 944.....	44.3	43.4	2.0	18.7	62.0	82.1	110.2	103.2
17	Iowalth Hybrid CA.....	42.4	41.1	3.1	19.3	74.5	98.7	104.3	102.9
18	Funk Hybrid 214.....	40.8	40.3	1.2	17.2	78.0	103.3	102.3	102.6
19	Funk Hybrid 215.....	40.8	39.6	2.9	17.5	82.0	108.6	100.5	102.5
20	Pioneer Hybrid 311A.....	44.4	40.1	9.7	16.6	78.5	104.0	101.8	102.4
21	Illinois Hi-Bred 384.....	40.3	39.1	3.0	18.2	83.0	109.9	99.2	101.9
22	Iowa Hybrid 939.....	41.5	38.7	6.7	16.6	84.0	111.3	98.2	101.5
23	Funk Illinois Hybrid 172.....	39.6	38.7	2.3	18.7	83.0	109.9	98.2	101.1
24	Indiana Hybrid 608.....	41.5	38.1	8.2	17.5	86.0	113.9	96.7	101.0
25	Funk Illinois Hybrid 384.....	39.3	38.7	1.5	18.9	79.5	105.3	98.2	100.0
26	Illinois Hybrid 172.....	39.7	38.7	2.5	17.5	78.5	104.0	98.2	99.7
27	Illinois-Iowalth Hybrid 25.....	43.2	40.9	5.3	19.0	66.0	87.4	103.8	99.7
28	Indiana Hybrid 420.....	40.4	37.4	7.4	18.2	86.0	113.9	94.9	99.7
29	Schissler Illinois Hybrid 543.....	39.3	36.7	6.6	19.0	88.0	116.6	93.1	99.0
30	National Hybrid 119.....	39.7	38.3	3.5	16.0	77.0	102.0	97.2	98.4
31	Iowalth Hybrid CI.....	38.2	36.7	3.9	19.0	69.5	92.1	93.1	92.9
32	DeKalb Hybrid 572.....	35.2	34.1	3.1	17.8	77.0	102.0	86.5	90.4
33	Illinois Hybrid 371.....	36.5	36.1	1.1	17.8	64.5	85.4	91.6	90.1
34	Illinois-Iowalth Hybrid 20.....	38.9	38.5	1.0	18.9	49.0	64.9	97.7	89.5
35	McKeighan Yellow Dent.....	35.5	34.0	4.2	19.8	74.5	98.7	86.3	89.4
36	Pioneer Hi-Bred 308.....	43.0	36.7	14.7	17.8	57.0	75.5	93.1	88.7
37	Morgan-Wallace Hybrid 106 L. E.....	36.6	34.9	4.6	16.9	64.5	85.4	88.6	87.8
38	Station Yellow Dent.....	34.6	32.9	4.9	20.6	74.0	98.0	83.5	87.1
39	Roeschley Yellow Dent.....	34.1	32.7	4.1	19.3	70.0	92.7	83.0	85.4
40	DeKalb Hybrid 592.....	35.3	33.7	4.5	17.1	62.5	82.8	85.5	84.8
41	DeKalb Hybrid 93.....	32.8	31.8	3.0	16.9	73.0	96.7	80.7	84.7
42	Morgan-Wallace Hybrid 138 L. E.....	36.0	32.5	9.7	17.7	68.5	90.7	82.5	84.6
43	Griffith Reid (untreated).....	33.2	32.4	2.4	16.9	66.0	87.4	82.2	83.5
44	Pioneer Hi-Bred 311.....	34.8	29.0	16.7	17.4	80.0	106.0	73.6	81.7
●	Average of 5 best open-pollinated var.....	32.5	30.6	5.8	19.0	69.7	92.3	77.7	81.4
45	Griffith Reid (Barbak).....	32.3	31.6	2.2	18.0	59.5	78.8	80.2	79.9
46	Funk Hybrid 220.....	32.1	30.8	4.0	18.3	63.5	84.1	78.2	79.7
47	Griffith Reid (Semesan Jr.).....	31.0	29.2	5.8	18.4	65.5	86.8	74.1	77.3
48	Queen of the Field.....	27.5	24.8	9.8	16.9	64.5	85.4	62.9	68.5
	Average of division.....	40.4	38.7	4.2	18.0	74.3	98.3	98.3	98.3
Experimental division—entries not in commercial production									
1	U. S. Hybrid 44.....	47.1	46.1	2.1	19.6	89.5	118.5	117.0	117.4
2	U. S. Hybrid 61.....	47.3	46.0	2.7	18.0	89.0	117.9	116.8	117.1
3	Moews Hybrid 10.....	45.8	45.1	1.5	18.3	90.5	119.9	114.5	115.9
4	Iowa Hybrid 3110.....	46.1	44.9	2.6	17.3	86.0	113.9	114.0	114.0
5	U. S. Hybrid 45.....	50.6	44.5	12.1	19.8	82.5	109.3	112.9	112.0
6	Illinois Hybrid 946.....	45.5	44.1	3.1	17.5	79.5	105.3	111.9	110.3
7	Illinois Hybrid 174.....	46.1	45.6	1.1	16.9	68.0	90.1	115.7	109.3
8	Moews Hybrid 8.....	45.0	43.8	2.7	19.6	77.0	102.0	111.2	108.9
9	Illinois Hybrid 345.....	40.8	40.4	1.0	19.8	87.0	115.2	102.5	105.7
10	Illinois Hybrid 173.....	42.5	40.2	5.4	16.8	83.0	109.9	102.0	104.0
11	Morgan-Wallace Hybrid 358.....	32.5	30.5	6.2	16.2	75.0	100.0	77.4	83.1
12	Morgan-Wallace Hybrid 315.....	33.1	32.3	2.4	18.0	59.5	78.8	82.0	81.2
	Average of division.....	43.5	42.0	3.4	18.2	80.6	106.7	106.5	106.6
	Average of all entries.....	41.0	39.4	1.5	18.0	75.5	....	....	....

TABLE 10.—DWIGHT, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Funk Hybrid 212.....	66.9	66.8	.1	16.8	80.5	110.6	113.6	112.9
2	Illinois Hybrid 960.....	67.9	67.8	.1	16.4	74.5	102.3	115.3	112.1
3	Illinois Hybrid 360.....	64.7	64.6	.2	16.6	85.5	117.4	109.9	111.8
4	Illinois Hybrid 582.....	68.4	67.4	1.5	17.3	74.5	102.3	114.6	111.5
5	Illinois Hybrid 546.....	62.4	61.7	1.1	17.1	92.0	126.4	104.9	110.3
6	Indiana Hybrid 608.....	65.3	64.2	1.7	16.8	82.5	113.3	109.2	110.2
7	Henry Co. Pfister Hybrid 4857.....	65.9	65.6	.5	16.6	76.0	104.4	111.6	109.8
8	Funk Illinois Hybrid 384.....	63.8	63.4	.6	16.6	82.0	112.6	107.8	109.0
9	DeKalb Illinois Hybrid 366.....	64.2	64.1	.2	16.6	76.5	105.1	109.0	108.0
10	DeKalb Illinois Hybrid 364.....	66.9	66.5	.6	17.4	67.0	92.0	113.1	107.8
11	Shissler Illinois Hybrid 543.....	62.5	62.4	.2	17.4	80.0	109.9	106.1	107.1
12	Iowa Hybrid C.....	63.7	63.5	.3	16.3	75.0	103.0	108.0	106.8
13	Illinois Hybrid 384.....	62.2	62.0	.3	16.4	80.0	109.9	105.4	106.5
14	Illinois Hybrid 751.....	61.1	60.8	.5	16.4	79.5	109.2	103.4	104.9
15	Indiana Hybrid 420.....	61.6	61.2	.6	17.3	78.0	107.1	104.1	104.9
16	Iowa Hybrid C A.....	59.4	58.9	.8	17.0	82.0	112.6	101.2	104.1
17	Iowa Hybrid 25.....	62.9	62.0	1.4	17.3	71.5	98.2	105.4	103.6
18	Illinois Hybrid 172.....	57.9	57.6	.5	17.0	83.5	114.7	98.0	102.2
19	Rishel-Lindquist Pfister Hybrid 4857.....	61.5	60.9	1.0	16.6	71.0	97.5	103.6	102.1
20	Illinois Hybrid 936.....	58.6	58.4	.3	18.8	80.0	109.9	99.3	102.0
21	Illinois Hybrid 944.....	61.7	60.8	1.5	17.2	68.5	93.4	103.4	100.9
22	Pioneer Hi-Bred 311.....	63.3	58.9	7.0	17.3	71.5	98.2	100.2	99.7
23	Morgan-Wallace Hybrid 138 L. E.....	60.5	60.1	.7	17.8	64.5	88.6	102.2	98.8
24	Moews Hybrid 8.....	58.9	58.4	.8	18.8	70.5	96.8	99.3	98.7
25	Moews Illinois Hybrid 172.....	56.2	56.1	.2	17.0	78.5	107.8	95.4	98.5
26	Pioneer Hi-Bred 308.....	61.4	59.9	2.4	15.9	64.0	87.9	101.9	98.4
27	Illinois Hybrid 570.....	56.5	56.3	.4	17.4	75.0	103.0	95.7	97.5
28	Iowa Hybrid 939.....	57.4	57.0	.7	16.4	72.0	98.9	96.9	97.4
29	Funk Illinois Hybrid 172.....	54.7	53.9	1.5	17.0	83.5	114.5	91.7	97.4
30	National Hybrid 119.....	57.8	57.6	.3	15.7	66.0	90.7	98.0	96.2
31	Funk Hybrid 215.....	55.4	55.1	.5	16.2	75.5	103.7	93.7	96.2
32	Illinois-Iowa Hybrid 25.....	58.5	56.3	3.8	17.6	70.0	96.2	95.7	95.8
33	Funk Hybrid 214.....	52.8	52.5	.6	16.4	81.5	112.0	89.3	95.0
34	DeKalb Hybrid 93.....	58.6	58.4	.3	16.1	59.0	81.0	99.3	94.7
35	Iowa Hybrid C I.....	52.1	50.8	2.5	19.5	85.5	117.4	86.4	94.2
36	DeKalb Hybrid 592.....	58.6	58.4	.3	15.9	57.0	78.3	99.3	94.1
37	Morgan-Wallace Hybrid 106 L. E.....	57.8	57.0	1.4	16.4	57.5	79.0	96.9	92.4
38	DeKalb Hybrid 572.....	54.1	53.1	1.8	16.4	69.0	94.8	90.3	91.4
39	Pioneer Hi-Bred 311A.....	58.7	49.7	15.3	17.5	79.5	109.2	84.5	90.7
40	McKeighan Yellow Dent (Semesan Jr.).....	54.2	53.9	.6	18.8	62.5	85.9	91.7	90.3
41	Station Yellow Dent.....	54.1	53.7	.7	18.0	63.0	86.5	91.3	90.1
42	Griffith Reid Yellow Dent.....	53.8	53.7	.2	16.4	62.5	85.9	91.3	90.0
43	Illinois-Iowa Hybrid 20.....	52.5	52.3	.4	17.4	62.5	85.9	88.9	88.2
44	● Average of 5 best open-pollinated var.....	53.2	52.7	.9	17.4	58.1	79.8	89.6	87.2
45	McKeighan Yellow Dent (Barbak).....	50.5	50.3	.4	19.4	64.5	88.6	85.5	86.3
46	Queen of the Field.....	53.2	52.2	1.9	15.9	51.5	70.7	88.8	84.3
47	Funk Hybrid 220.....	48.2	48.0	.4	16.2	66.5	91.3	81.6	84.0
48	McKeighan Yellow Dent (untreated).....	50.6	50.1	1.0	18.6	58.0	79.7	85.2	83.8
49	Roeschley Yellow Dent.....	50.9	50.0	1.8	18.0	51.0	70.1	85.0	81.3
	Average of division.....	59.0	58.2	1.4	17.1	71.9	98.8	99.0	98.9
Experimental division—entries not in commercial production									
1	Moews Hybrid 10.....	70.4	69.3	1.6	17.3	89.0	122.3	117.8	118.9
2	Illinois Hybrid 345.....	66.9	66.6	.4	17.4	87.5	120.2	113.3	115.0
3	Illinois Hybrid 174.....	66.0	65.7	.5	16.1	81.0	111.3	111.7	111.6
4	U. S. Hybrid 44.....	64.9	63.7	1.8	17.0	74.0	101.6	108.3	106.6
5	Illinois Hybrid 946.....	59.9	59.4	.8	17.5	81.5	112.0	101.0	103.8
6	U. S. Hybrid 45.....	63.3	62.4	1.4	18.2	69.0	94.8	106.1	103.3
7	U. S. Hybrid 61.....	61.2	61.1	.2	16.8	73.5	101.0	103.9	103.2
8	Iowa Hybrid 3110.....	58.4	57.9	.9	17.1	82.5	113.3	98.5	102.2
9	Morgan-Wallace Hybrid 358.....	61.5	60.8	1.1	16.4	70.5	96.8	103.4	101.8
10	Illinois Hybrid 173.....	57.0	56.7	.5	16.4	84.0	115.4	96.4	101.2
11	Illinois Hybrid 371.....	55.2	55.0	.4	16.4	68.5	94.1	93.5	93.7
12	Morgan-Wallace Hybrid 315.....	54.1	54.0	.2	15.4	47.0	64.6	91.8	85.0
	Average of division.....	61.6	61.1	.8	16.8	68.7	104.0	103.8	104.0
	Average of all entries.....	59.5	58.8	1.2	17.0	71.3	.....	.....	.....

TABLE 11.—CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT ADAIR, STANFORD, AND ARMSTRONG, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960	50.9	50.4	1.1	18.5	86.5	105.4	123.6	119.1
2	Illinois Hybrid 582	48.9	48.1	1.8	18.4	87.5	106.6	117.9	115.1
3	Funk Hybrid 212	47.3	46.4	1.9	17.6	85.5	104.1	113.8	111.4
4	Funk Hybrid 244	47.5	46.7	1.7	18.3	81.3	99.0	114.5	110.6
5	Illinois Hybrid 753	46.7	45.8	1.9	19.8	82.4	100.4	112.3	109.3
6	Crow Illinois Hybrid 360A	45.5	44.5	2.0	17.1	89.2	108.6	109.1	109.0
7	Illinois Hybrid 936	45.5	44.7	1.9	18.3	85.8	104.5	109.6	108.3
8	Illinois Hybrid 754	46.0	44.5	3.1	18.9	85.9	104.6	109.1	108.0
9	Iowearth Hybrid C	45.5	44.2	2.6	19.0	86.2	105.0	108.4	107.6
10	Iowearth Hybrid 26	45.3	44.3	2.6	19.3	84.8	103.3	108.6	107.3
11	Illinois Hybrid 391	47.1	45.6	3.5	18.9	75.5	92.0	111.8	106.9
12	Illinois Hybrid 710	46.3	44.8	3.2	20.2	77.5	94.4	109.9	106.0
13	Iowearth Hybrid 25	43.8	43.4	.9	18.1	84.8	103.3	106.4	105.6
14	Shisler Illinois Hybrid 543	44.2	42.9	2.8	18.5	85.0	103.5	105.2	104.8
15	Illinois Iowearth Hybrid 25	45.1	43.5	3.8	19.0	79.0	96.2	106.7	104.1
16	Pioneer Hi-Bred 311A	46.0	42.7	7.1	17.9	82.7	100.7	104.7	103.7
17	Illinois Hybrid 360	42.7	41.7	2.3	19.2	84.8	103.3	102.3	102.6
18	Iowearth Hybrid CA	41.0	40.4	1.3	17.8	88.0	107.2	99.1	101.1
19	Illinois Hybrid 944	43.3	42.6	1.6	18.7	74.3	90.5	104.5	101.0
20	Illinois Hybrid 710A	42.6	41.3	2.7	20.0	81.3	99.0	101.3	100.7
20	Pioneer Hi-Bred 308D	41.5	40.1	3.4	18.2	88.7	108.0	98.3	100.7
21	Illinois Hybrid 546	39.9	38.3	4.0	19.7	92.2	112.3	93.9	98.5
22	Pioneer Hi-Bred 311	41.1	39.0	4.7	17.0	84.3	102.7	95.6	97.4
23	Funk Illinois Hybrid 384	39.5	38.5	2.3	17.7	84.7	103.2	94.4	96.6
24	Iowearth Hybrid CC	37.6	36.3	3.3	18.8	86.8	105.7	89.0	93.2
24	Iowearth Hybrid CI	35.6	34.6	2.7	18.8	97.2	118.4	84.8	93.2
25	Funk Hybrid 275	37.8	36.4	3.3	18.5	82.9	101.0	89.3	92.2
26	Illinois Hybrid 172	36.6	36.1	2.1	17.1	83.7	101.9	88.5	91.9
27	Ohio Hybrid 5	40.2	38.5	4.8	20.2	67.5	82.2	94.4	91.4
28	Funk Hybrid 207	37.0	35.6	3.4	19.8	83.4	101.6	87.3	90.9
29	Pioneer Hi-Bred 308	41.8	38.6	7.9	20.0	64.0	78.0	94.7	90.5
30	Ohio Hybrid 4	40.4	36.5	3.0	20.2	76.5	93.2	89.5	90.4
31	Funk Hybrid 220 L	35.7	34.6	2.9	19.6	75.0	91.4	84.8	86.5
32	Funk Hybrid 220	34.9	33.9	3.1	18.1	68.3	83.2	83.1	83.1
33	Canterbury Yellow Dent (Semesan Jr.)	34.4	33.6	2.3	21.0	68.0	82.8	82.2	82.5
34	Station Yellow Dent	33.4	32.4	3.1	20.5	70.3	85.6	79.4	81.0
●	Average of 5 best open-pollinated var.	32.9	32.1	2.6	19.6	65.3	79.5	78.7	78.9
35	Mountjoy Utility Dent	31.7	31.3	2.3	18.9	63.0	76.7	76.8	76.8
36	Ropp Yellow Dent	30.4	30.0	1.9	18.2	63.3	77.1	73.6	74.5
37	Sommer Yellow Dent	32.3	31.1	3.8	19.5	56.2	68.5	76.3	74.4
Average of division		41.1	40.1	2.4	18.9	80.1	97.6	98.3	98.2
Experimental division—entries not in commercial production									
1	Arlington Hybrid 5	50.9	49.9	1.8	18.3	91.5	111.4	122.4	119.7
2	U. S. Hybrid 44	45.5	44.7	1.8	17.4	93.0	113.3	109.6	110.5
3	Moews Hybrid 10	45.7	44.2	2.9	18.1	93.8	114.3	108.4	109.9
4	Arlington Hybrid 35	44.7	43.4	2.9	18.9	96.2	117.2	106.4	109.1
5	Arlington Hybrid 6	46.1	45.1	2.5	19.1	81.8	99.6	110.6	107.9
6	U. S. Hybrid 61	44.5	43.8	1.7	17.7	89.3	108.8	107.4	107.8
7	Moews Hybrid 8	44.2	43.0	2.9	19.6	89.3	108.8	105.4	106.3
8	National Hybrid 127	44.9	44.3	1.4	19.1	81.4	99.1	108.6	106.2
9	Funk Hybrid 211	45.0	43.2	3.9	19.4	83.2	101.3	105.9	104.8
10	Illinois Hybrid 161	43.2	41.4	4.3	19.9	92.4	112.5	101.5	104.3
11	Illinois Hybrid 946	43.6	42.4	2.4	17.6	85.9	104.6	104.0	104.2
12	Pioneer Hi-Bred 305A	44.1	42.5	3.9	19.8	85.2	103.8	104.2	104.1
13	Iowa Hybrid 3112	43.2	42.1	2.3	16.7	83.7	101.9	103.2	102.9
14	Iowearth Hybrid CC ₂	29.3	27.5	6.5	19.4	78.7	95.9	67.4	74.5
Average of division		43.9	42.7	2.7	18.6	87.5	106.6	104.6	105.2
Average of all entries		41.8	40.8	2.4	18.8	82.1	....	....	....

TABLE 12.—ADAIR, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Funk Hybrid 212	48.7	47.8	1.8	16.1	81.0	108.0	130.2	124.7
2	Iowaleth Hybrid C	47.1	45.8	2.9	17.1	81.5	108.7	124.8	120.8
3	Funk Hybrid 244	47.3	46.0	2.7	17.0	79.5	106.0	125.3	120.5
4	Illinois Hybrid 960	45.2	44.6	1.4	16.4	85.0	113.3	121.5	119.5
5	Funk Hybrid 235	46.3	44.5	3.9	16.6	77.5	103.3	121.3	116.8
6	Illinois Hybrid 936	44.2	43.5	1.5	18.4	79.5	106.0	118.5	115.4
7	Illinois Hybrid 582	43.1	42.6	1.2	17.2	82.5	110.0	116.1	114.6
8	Illinois Hybrid 710	44.1	43.3	1.8	19.4	73.0	97.3	118.0	112.8
9	Iowaleth Hybrid 26	42.7	41.9	1.9	17.0	81.0	108.0	114.2	112.7
10	Crow Illinois Hybrid 360A	43.9	42.5	3.4	15.7	76.5	102.0	115.8	112.4
11	Illinois Hybrid 391	43.8	43.1	1.5	16.8	69.5	92.7	117.4	111.2
12	Illinois Hybrid 754	42.8	40.8	4.7	16.5	79.5	106.0	111.2	109.9
13	Pioneer Hi-Bred 311A	46.9	41.4	11.7	15.1	73.0	97.3	112.8	108.9
14	Iowaleth Hybrid 25	40.8	40.2	1.5	17.3	76.5	102.0	109.5	107.6
15	Funk Illinois Hybrid 384	40.9	40.0	2.0	16.3	77.0	102.3	109.0	107.4
16	Illinois Hybrid 360	41.1	40.2	2.2	16.9	74.5	99.3	109.5	107.0
17	Iowaleth Hybrid CA	38.9	38.2	1.6	17.2	83.0	110.7	104.1	105.8
18	Illinois Iowaleth Hybrid 25	40.2	39.3	2.3	17.3	73.5	98.0	107.1	104.8
19	Pioneer Hi-Bred 308D	39.1	37.0	5.2	16.3	85.5	114.0	100.8	104.1
20	Illinois Hybrid 546	39.1	37.5	4.0	17.1	81.0	108.0	102.2	103.7
21	Indiana Hybrid 632B	37.8	37.1	1.8	16.4	80.0	106.7	101.1	102.5
22	Shissler Illinois Hybrid 543	38.8	37.4	3.6	18.5	77.5	103.3	101.9	102.3
23	Illinois Hybrid 753	38.9	38.0	2.4	17.7	73.0	97.3	103.5	102.0
24	Illinois Hybrid 944	38.1	37.6	1.2	17.5	72.5	96.7	102.5	101.1
25	Illinois Hybrid 710A	37.7	36.6	2.9	17.9	77.0	102.7	99.7	100.5
26	Pioneer Hi-Bred 311	38.8	36.4	6.1	15.3	78.0	104.0	99.2	100.4
27	Illinois Hybrid 172	36.2	35.0	3.4	15.7	77.5	103.3	95.4	97.4
28	Funk Hybrid 220L	36.2	34.7	4.1	17.9	72.5	97.0	94.6	95.2
28	Ohio Hybrid 4	36.8	35.4	3.9	17.5	68.5	91.3	96.5	95.2
29	Fund Hybrid 207	35.6	33.9	4.9	17.9	74.0	98.7	92.4	94.0
30	Iowaleth Hybrid CI	32.2	31.6	1.9	16.3	87.5	116.7	86.1	93.8
31	Funk Hybrid 275	34.7	33.7	3.1	17.0	73.5	98.0	91.8	93.4
32	Pioneer Hi-Bred 308	39.7	34.6	12.9	17.6	67.5	90.0	94.3	93.2
33	Ohio Hybrid 5	35.6	33.7	5.5	17.3	62.5	83.3	91.8	89.7
34	Iowaleth Hybrid CC	31.1	30.0	3.4	15.9	85.0	113.3	81.7	89.6
35	Funk Hybrid 220	32.6	31.2	4.2	15.2	62.5	83.3	85.0	84.6
36	Canterbury Yellow Dent	32.0	30.9	3.5	18.5	57.5	76.7	84.2	82.3
37	Station Yellow Dent	28.1	27.3	2.9	20.2	61.0	81.3	74.4	76.1
●	Average of 5 best open-pollinated var.	27.8	26.9	3.3	18.1	58.3	77.8	73.3	74.4
38	Doubet Yellow Dent	25.7	24.9	3.2	17.2	64.0	85.3	67.8	72.2
39	Mountjoy Utility Dent (untreated)	26.9	25.9	3.7	17.5	57.5	76.7	70.6	72.1
40	Sommer Yellow Dent	26.3	25.5	3.3	17.1	51.5	68.7	69.5	69.3
41	Herndon Yellow Dent	25.6	24.9	2.5	17.7	53.5	71.3	67.8	68.7
42	Mountjoy Utility Dent (Semesan Jr.)	25.1	24.2	3.7	17.5	54.5	72.7	65.9	67.6
43	Ropp Yellow Dent	23.5	23.0	2.3	17.2	57.5	76.7	62.7	66.2
44	Mountjoy Utility Dent (Barbak)	24.2	23.7	2.2	18.4	48.5	64.7	64.6	64.6
Average of division		37.4	36.2	3.4	17.1	72.5	96.7	98.5	98.1
Experimental division—entries not in commercial production									
1	Arlington Hybrid 5	52.0	51.0	1.8	16.3	89.5	119.3	139.0	134.1
2	Arlington Hybrid 35	43.9	43.0	2.1	16.3	93.5	124.7	117.2	119.1
3	Iowa Hybrid 3112	44.2	43.0	2.6	14.5	84.0	112.0	117.2	115.9
4	Arlington Hybrid 6	45.0	43.6	3.2	17.0	79.5	106.0	118.8	115.6
5	Moews Hybrid 10	41.8	41.0	1.8	16.1	90.0	120.0	111.7	113.8
6	Illinois Hybrid 161	43.1	40.7	5.6	18.1	86.5	115.3	110.9	112.0
7	Illinois Hybrid 946	42.7	42.2	1.2	16.0	74.5	99.3	115.0	111.1
8	Funk Hybrid 211	42.5	40.0	5.9	19.1	82.5	110.0	109.0	109.3
9	National Hybrid 127	39.1	38.3	2.2	17.0	83.5	111.3	104.4	106.1
10	U. S. Hybrid 44	37.5	36.7	2.1	16.8	86.0	114.7	100.0	103.7
11	U. S. Hybrid 61	36.4	35.7	1.9	16.1	86.0	114.7	97.3	101.7
12	Pioneer Hi-Bred 305A	37.2	35.5	4.4	18.4	84.5	112.7	96.7	100.7
13	Moews Hybrid 8	33.7	32.6	3.2	17.6	79.5	106.0	88.8	93.1
14	Mayfield Top Cross	28.8	27.8	3.4	17.7	61.0	81.3	75.7	77.1
15	Iowaleth Hybrid CC	23.8	21.3	10.2	18.1	73.0	97.3	58.0	67.8
Average of division		39.5	38.2	3.4	17.0	82.2	109.6	104.0	105.4
Average of all entries		37.9	36.7	3.4	17.1	75.0	....	....	....

TABLE 13.—STANFORD, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960.....	71.8	71.1	1.1	18.5	90.0	103.1	135.7	127.6
2	Illinois Hybrid 582.....	65.4	64.1	2.0	18.5	92.0	105.4	122.3	118.1
3	Illinois Hybrid 753.....	65.1	63.9	1.8	20.2	92.6	106.1	121.9	118.0
4	Illinois lowleath Hybrid 25.....	62.3	60.1	3.6	18.3	89.0	101.9	114.7	111.5
5	Illinois Hybrid 391.....	62.1	60.3	3.0	18.6	85.6	98.1	115.1	110.9
6	Funk Hybrid 212.....	60.0	58.8	2.0	18.5	92.6	106.1	112.2	110.7
7	Funk Hybrid 244.....	60.4	59.9	.9	18.0	84.0	96.2	114.3	109.8
8	Iowleath Hybrid 25.....	58.8	58.4	.7	16.6	89.0	101.9	111.5	109.1
9	Illinois Hybrid 710.....	60.9	58.6	3.7	19.2	84.0	96.2	112.8	108.7
10	Iowleath Hybrid 26.....	59.7	58.4	2.2	18.3	86.0	98.5	111.5	108.3
11	Illinois Hybrid 754.....	58.0	56.3	2.9	20.2	94.6	108.4	107.4	107.7
12	Illinois Hybrid 936.....	57.3	56.4	1.7	16.7	92.0	105.4	107.6	107.1
13	Illinois Hybrid 944.....	59.0	58.0	1.8	18.2	83.0	95.1	110.7	106.8
14	Crow Illinois Hybrid 360A.....	56.4	55.2	2.0	18.0	95.0	108.8	105.3	106.2
15	Pioneer Hi-Bred 311A.....	59.1	55.6	6.0	20.4	92.0	105.4	106.1	105.9
15	Iowleath Hybrid C.....	57.9	55.6	4.0	19.8	92.0	105.4	106.1	105.9
17	Shissler Illinois Hybrid 543.....	56.6	54.6	3.4	18.8	95.6	109.5	104.2	105.5
17	Indiana Hybrid 684.....	55.1	52.5	4.6	19.2	98.6	112.9	100.2	103.4
18	Iowleath Hybrid CC.....	55.2	53.2	3.6	18.5	91.0	104.2	101.6	102.3
19	Illinois Hybrid 710A.....	56.5	54.3	3.8	20.2	84.0	96.2	103.6	101.8
20	Ohio Hybrid 5.....	57.4	55.7	3.0	20.4	75.0	85.9	106.3	101.2
21	Pioneer Hi-Bred 308D.....	51.9	50.7	2.2	19.8	95.6	109.5	96.8	100.0
22	Illinois Hybrid 360.....	53.8	52.0	3.3	19.8	89.0	101.9	99.2	99.9
23	Pioneer Hi-Bred 311.....	55.7	52.3	6.1	18.6	87.0	99.7	99.8	99.8
24	Iowleath Hybrid CA.....	52.5	51.7	1.5	18.6	88.0	100.8	98.7	99.2
25	Ohio Hybrid 4.....	54.8	53.2	3.0	20.6	79.0	90.5	101.5	98.8
26	Pioneer Hi-Bred 308.....	51.9	49.3	5.1	22.8	76.0	87.1	94.1	92.4
27	Illinois Hybrid 546.....	47.4	44.9	5.4	20.8	97.6	111.8	85.7	92.2
28	Funk Hybrid 275.....	48.1	45.6	5.1	19.5	92.6	106.1	87.0	91.8
29	Iowleath Hybrid CI.....	45.7	44.3	3.0	19.5	98.6	112.9	84.5	91.6
30	Funk Illinois Hybrid 384.....	46.7	45.4	2.7	17.3	89.0	101.9	86.6	90.4
31	Funk Hybrid 207.....	46.3	44.3	4.2	21.1	90.6	103.8	84.5	89.3
32	Illinois Hybrid 172.....	43.5	42.9	1.5	16.8	83.0	100.8	81.9	86.6
33	Funk Hybrid 220.....	46.3	45.5	1.8	18.2	74.0	84.8	86.6	86.2
34	Station Yellow Dent.....	45.5	44.4	2.6	19.8	78.0	89.3	84.7	85.9
35	Canterbury Yellow Dent.....	43.7	43.1	1.4	20.4	80.0	91.6	82.3	84.6
●	Average of 5 best open-pollinated var.....	43.8	42.9	2.2	19.5	72.0	82.5	81.9	82.1
36	Mountjoy Utility Dent.....	43.4	42.9	1.1	18.5	68.0	77.9	81.9	80.9
37	Funk Hybrid 220L.....	42.3	40.7	3.8	20.6	78.0	89.3	77.7	80.6
38	Brenneman Yellow Dent.....	43.3	42.3	2.3	20.2	68.0	77.9	80.7	80.0
39	Sommer Yellow Dent.....	43.2	41.7	3.5	19.3	66.0	75.6	79.6	78.6
40	Ropp Yellow Dent (Semesan Jr.).....	40.6	39.9	1.6	17.3	73.0	83.6	76.1	78.0
41	Ropp Yellow Dent (Barbak).....	38.5	38.0	1.3	18.8	77.0	88.2	72.5	76.4
42	Doubet Yellow Dent.....	38.7	37.7	2.6	18.8	76.0	87.1	71.9	75.7
43	Ropp Yellow Dent (untreated).....	36.3	35.0	3.6	18.4	73.0	83.6	66.8	71.0
	Average of division.....	52.6	51.1	2.8	19.1	85.4	97.9	97.6	97.6
Experimental division—entries not in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Arlington Hybrid 5.....	67.1	65.7	2.1	17.8	95.6	109.5	125.4	121.4
2	National Hybrid 127.....	63.3	62.5	1.3	19.2	88.6	101.5	119.3	114.9
3	Moews Hybrid 8.....	61.8	61.0	1.4	17.6	95.0	108.8	116.4	114.5
4	U. S. Hybrid 61.....	62.2	61.1	1.8	16.9	91.0	104.2	116.6	113.5
5	Arlington Hybrid 6.....	61.8	61.2	.9	18.3	86.0	98.5	116.8	112.2
6	U. S. Hybrid 44.....	59.6	58.4	2.1	16.4	94.0	107.7	111.5	110.6
7	Moews Hybrid 10.....	59.1	55.9	5.4	18.2	99.0	113.4	106.7	108.4
8	Illinois Hybrid 946.....	57.9	55.6	4.0	19.0	96.6	110.7	106.1	107.3
9	Iowa Hybrid 3110.....	58.0	57.2	1.4	17.0	87.0	99.7	109.2	106.8
9	Pioneer Hi-Bred 305A.....	57.0	55.8	2.1	18.0	94.0	107.7	106.5	106.8
11	Arlington Hybrid 35.....	55.8	53.7	3.8	20.4	99.6	114.1	102.5	105.4
11	Illinois Hybrid 161.....	53.7	51.7	3.8	21.4	95.6	109.5	98.7	101.4
12	Iowa Hybrid 3112.....	54.7	53.1	2.9	16.9	88.0	100.8	101.3	101.2
13	Funk Hybrid 218.....	52.4	50.7	3.3	17.6	98.2	112.6	96.8	100.8
14	Funk Hybrid 211.....	54.6	52.5	3.8	19.2	88.0	100.8	100.2	100.4
15	Iowleath Hybrid CC ₂	38.9	37.1	4.5	20.0	85.0	97.4	70.8	77.5
	Average of division.....	57.4	55.8	2.8	18.4	92.6	106.1	106.6	106.4
	Average of all entries.....	53.9	52.4	2.8	18.9	87.3	.....	.....	.....

TABLE 14.—ARMSTRONG, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 582.....	38.3	37.5	2.1	19.5	88.0	108.8	119.8	117.1
2	Crow Illinois Hybrid 360A.....	36.1	35.9	.6	17.7	96.0	118.7	114.7	115.7
3	Shissler Illinois Hybrid 543.....	37.2	36.7	1.4	18.2	82.0	101.4	117.3	113.3
4	Illinois Hybrid 754.....	37.1	36.4	1.7	20.1	83.5	103.3	116.3	113.1
5	Illinois Hybrid 960.....	35.8	35.5	.7	20.6	84.5	104.5	113.4	111.2
6	Illinois Hybrid 753.....	36.0	35.5	1.4	21.4	81.5	100.8	113.4	110.3
7	Indiana Hybrid 684.....	35.1	33.7	3.9	19.3	90.5	111.9	107.7	108.8
8	Illinois Hybrid 936.....	35.0	34.1	2.5	19.9	86.0	106.3	108.9	108.3
9	Funk Hybrid 244.....	34.7	34.2	1.4	19.8	80.5	99.5	109.3	106.9
10	Illinois Hybrid 360.....	33.3	32.8	1.3	20.9	91.0	112.5	104.8	106.7
11	Illinois Hybrid 546.....	33.3	32.4	2.6	21.2	92.0	113.8	103.5	106.1
12	Illinois Hybrid 710A.....	33.7	33.2	1.4	22.0	83.0	102.6	106.1	105.2
12	Iowaleth Hybrid 26.....	33.4	32.6	2.6	22.6	87.5	108.2	104.2	105.2
13	Pioneer Hi-Bred 308D.....	33.5	32.5	2.9	18.6	85.0	105.1	103.8	104.1
14	Funk Hybrid 212.....	33.3	32.7	1.8	18.2	83.0	102.6	104.5	104.0
15	Iowaleth Hybrid CA.....	31.6	31.3	.9	17.5	93.0	115.0	100.0	103.8
16	Crow Pfister Hybrid 262.....	31.4	31.1	.9	19.5	93.5	115.6	99.4	103.5
17	Iowaleth Hybrid 25.....	31.7	31.5	.6	20.4	89.0	110.1	100.6	103.0
18	Illinois Hybrid 391.....	35.5	33.4	6.0	21.2	71.5	88.4	106.7	102.1
19	Illinois Hybrid 710.....	33.9	32.6	4.0	22.0	75.5	93.4	104.2	101.5
20	Iowaleth Hybrid C.....	31.6	31.3	1.0	20.1	85.0	105.1	100.0	101.3
21	Pioneer Hi-Bred 311A.....	32.1	31.0	3.6	18.3	83.0	102.6	99.0	99.9
22	Funk Illinois Hybrid 384.....	30.9	30.2	2.1	19.6	88.0	108.8	96.5	99.6
23	Illinois Hybrid 944.....	32.8	32.2	1.8	20.4	67.5	83.5	102.9	98.1
24	Illinois Iowaleth Hybrid 25.....	32.9	31.1	5.4	21.4	74.5	92.1	99.4	97.6
25	Funk Hybrid 275.....	30.6	30.0	1.8	18.9	82.5	102.0	95.8	97.4
26	Illinois Hybrid 172.....	30.0	29.6	1.5	18.8	85.5	105.7	94.6	97.4
27	Iowaleth Hybrid CI.....	29.0	28.0	3.3	20.6	95.5	118.1	89.5	96.7
28	Funk Hybrid 207.....	29.0	28.7	1.0	20.5	85.5	105.7	91.7	95.2
29	Pioneer Hi-Bred 311.....	28.9	28.3	2.0	17.0	88.0	108.8	90.4	95.0
30	Ohio Hybrid 4.....	29.5	28.9	2.2	22.4	82.0	101.4	92.3	94.6
31	Funk Hybrid 220L.....	28.7	28.5	.9	20.4	74.5	92.1	91.1	91.4
32	Pioneer Hi-Bred 308.....	33.7	31.8	5.6	19.5	48.5	60.0	101.6	91.2
33	Canterbury Yellow Dent (untreated).....	29.4	29.0	1.4	22.6	68.0	84.1	92.7	90.6
34	Funk Hybrid 235.....	29.0	28.2	2.6	19.5	74.0	91.5	90.1	90.5
35	Iowaleth Hybrid CC.....	26.4	25.6	2.9	21.9	84.5	104.5	81.8	87.5
36	Canterbury Yellow Dent (Semesan Jr.).....	27.4	26.9	2.0	24.2	66.5	82.2	85.9	85.0
●	Average of 5 best open-pollinated var.....	27.2	26.6	2.4	21.3	65.7	81.2	85.0	84.1
37	Canterbury Yellow Dent (Barbak).....	28.0	27.1	3.3	23.2	61.5	76.0	86.6	84.0
38	Ropp Yellow Dent.....	27.7	27.2	1.8	20.1	59.5	73.6	86.9	83.6
38	Station Yellow Dent.....	26.6	25.6	3.9	22.4	72.0	89.0	81.8	83.6
39	Mountjoy Utility Dent.....	26.6	26.0	2.1	20.8	66.5	82.2	83.1	82.9
40	Ohio Hybrid 5.....	27.7	26.0	5.8	23.0	65.0	80.4	83.1	82.4
41	Funk Hybrid 220.....	25.9	25.0	3.3	20.8	68.5	84.7	79.9	81.1
42	Hoblit Golden Eagle.....	25.9	25.2	2.8	20.6	62.5	77.3	80.5	79.7
43	Sommer Yellow Dent.....	27.3	26.0	4.7	22.0	51.0	63.1	83.1	78.1
Average of division.....		31.5	30.7	2.5	20.4	79.0	97.7	98.2	98.1
Experimental division—entries not in commercial production									
1	U. S. Hybrid 44.....	39.4	38.9	1.3	18.9	99.0	122.4	124.3	123.8
2	Moews Hybrid 10.....	36.3	35.8	1.4	20.1	92.5	114.4	114.4	114.4
3	Moews Hybrid 8.....	37.0	35.5	4.0	23.5	93.5	115.6	113.4	114.0
4	Funk Hybrid 211.....	38.0	37.3	1.9	19.9	79.0	97.7	119.2	113.8
5	U. S. Hybrid 61.....	35.0	34.5	1.4	20.1	91.0	112.5	110.2	110.8
6	Pioneer Hi-Bred 305A.....	38.2	36.2	5.1	23.0	77.0	95.2	115.7	110.6
7	Arlington Hybrid 35.....	34.4	33.4	2.9	20.1	95.5	118.1	106.7	109.6
8	Pioneer Hi-Bred 308B.....	36.3	34.2	5.7	19.3	88.5	109.4	109.3	109.3
9	Arlington Hybrid 5.....	33.5	33.1	1.4	20.8	89.5	110.7	105.8	107.0
10	Illinois Hybrid 161.....	32.9	31.8	3.4	20.1	95.0	117.5	101.6	105.6
11	National Hybrid 127.....	32.3	32.0	.8	21.2	72.0	89.0	102.2	98.9
12	Arlington Hybrid 6.....	31.4	30.4	3.3	21.9	80.0	98.9	97.1	97.6
13	Illinois Hybrid 946.....	30.1	29.4	2.0	17.7	86.5	107.0	93.9	97.2
14	Iowa Hybrid 3112.....	30.8	30.3	1.5	18.8	79.0	97.7	96.8	97.0
15	Iowaleth Hybrid CC ₂	25.3	24.0	4.9	20.2	78.0	96.5	76.7	81.7
Average of division.....		34.1	33.1	2.7	20.4	86.4	106.8	105.8	106.1
Average of all entries.....		32.1	31.3	2.5	20.4	80.9	....	....	....

TABLE 15.—SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES
AND HYBRIDS AT FRANKLIN AND SULLIVAN, 1936
(Average of duplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 960.....	33.7	33.2	1.7	15.2	63.3	93.5	137.4	126.4
2	Iowa Hybrid 13.....	31.9	30.9	2.8	15.7	62.3	92.0	127.9	118.9
3	Funk Hybrid 244.....	31.4	31.0	1.5	15.6	60.3	89.1	128.3	118.5
4	Illinois Hybrid 582.....	30.6	29.4	3.4	16.0	66.3	98.0	121.7	115.8
5	Illinois Hybrid 945.....	29.2	27.9	3.9	15.2	66.5	98.3	115.5	111.2
6	Illinois Hybrid 538.....	27.6	26.8	2.8	15.5	69.3	102.4	110.9	108.8
7	Illinois Hybrid 710.....	28.6	27.4	4.3	16.2	60.0	88.6	113.4	107.2
8	Funk Hybrid 220L.....	24.9	24.2	2.7	15.7	62.5	92.3	100.2	98.2
9	Funk Hybrid 207.....	24.2	23.2	3.9	15.6	66.3	98.0	96.0	96.5
10	Illinois Hybrid 54.....	22.8	22.0	3.5	15.9	73.0	107.9	91.1	95.3
11	Funk Hybrid 275.....	23.4	22.3	4.8	15.0	70.3	103.9	92.3	95.2
12	Illinois Hybrid 152.....	22.9	21.7	3.4	16.5	70.3	103.9	89.8	93.3
13	Station Yellow Dent.....	18.6	17.8	3.8	16.4	66.0	97.5	73.7	79.7
14	Rice White Dent.....	18.4	17.9	1.9	16.8	61.8	91.3	74.1	78.4
15	Canterbury Yellow Dent.....	18.7	18.2	2.6	17.9	58.8	86.9	75.3	78.2
●	Average of 5 best open-pollinated var...	17.8	17.3	2.9	17.1	63.2	93.4	71.6	77.1
16	Golden Beauty.....	17.0	16.6	2.5	17.8	65.5	96.8	68.7	75.7
17	Bunning White Dent.....	16.2	15.9	3.7	16.6	63.8	94.3	65.8	72.9
18	Eversole White Dent.....	15.4	14.4	4.8	16.2	61.0	90.1	59.6	67.2
	Average of division.....	24.2	23.4	3.2	16.1	64.9	95.8	96.8	96.5
Experimental division—entries <i>not</i> in commercial production									
1	Illinois Hybrid 947.....	31.9	30.2	4.4	15.4	69.3	102.4	125.0	119.4
2	Illinois Hybrid 46.....	29.9	27.4	2.0	13.9	69.5	102.7	121.7	117.0
3	Funk Hybrid 211.....	30.3	28.9	4.1	16.6	71.3	105.3	119.6	116.0
4	Indiana Hybrid 692.....	29.4	27.8	4.4	15.3	79.8	117.9	115.1	115.8
5	Indiana Hybrid 829.....	27.5	26.2	4.2	15.7	82.5	121.9	108.4	111.8
6	Illinois Hybrid 78.....	28.6	27.6	3.6	15.9	66.3	98.0	114.2	110.2
7	Illinois Hybrid 28.....	28.0	26.7	3.8	15.9	62.0	91.6	110.5	105.8
8	Illinois Hybrid 851.....	27.6	26.3	4.5	16.7	62.3	92.0	108.8	104.6
9	Pioneer Hi-Bred 3222.....	24.8	22.9	8.2	17.8	82.0	121.2	94.8	101.4
10	Illinois Hybrid 7.....	24.3	24.0	1.7	15.1	69.0	101.9	99.3	100.0
11	Illinois Hybrid 89.....	25.1	23.6	5.8	17.1	64.8	95.7	97.7	97.2
12	Illinois Hybrid 92.....	22.6	22.3	1.5	15.2	72.5	107.1	92.3	96.0
13	Illinois Hybrid 100.....	22.7	21.8	3.5	16.1	75.5	111.5	90.2	95.5
14	Illinois Hybrid 45.....	20.5	20.0	4.6	16.6	78.8	116.4	82.8	91.2
15	Illinois Hybrid 95.....	21.7	20.9	4.1	15.7	70.8	104.6	86.5	91.0
16	Illinois Hybrid 37.....	23.7	22.1	5.1	15.9	57.5	85.0	91.5	89.9
	Average of division.....	26.2	24.9	4.1	15.9	70.9	104.7	103.6	103.9
	Average of all entries.....	25.1	24.1	3.6	16.0	67.7	....	....	....

TABLE 16.—FRANKLIN, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 960.....	23.8	23.3	2.1	13.5	81.5	107.9	165.0	150.7
2	Funk Hybrid 244.....	21.6	21.1	2.2	13.2	84.5	111.9	149.4	140.0
3	Illinois Hybrid 582.....	20.7	20.4	1.4	13.2	84.5	111.9	144.4	136.3
4	Iowa Hybrid 13.....	19.5	19.1	2.1	12.0	77.5	102.6	135.2	127.1
5	Illinois Hybrid 538.....	19.4	19.1	1.7	12.9	76.0	100.6	135.2	126.6
6	Funk Hybrid 220L.....	17.9	17.6	1.7	13.0	77.0	102.0	124.6	119.0
7	Illinois Hybrid 945.....	18.1	17.5	3.2	13.3	78.5	104.0	123.9	118.9
8	Illinois Hybrid 710.....	16.6	15.9	4.4	13.9	66.5	88.1	112.6	106.5
9	Illinois Hybrid 152.....	13.6	13.2	2.4	13.3	83.0	109.9	93.5	97.6
10	Funk Hybrid 275.....	13.2	12.7	3.9	12.5	82.5	109.3	89.9	94.8
11	Funk Hybrid 207.....	13.2	12.6	4.0	13.8	73.0	96.7	89.2	91.1
12	Station Yellow Dent.....	12.5	12.2	2.3	13.1	73.0	96.7	86.4	89.0
13	Canterbury Yellow Dent (Barbak).....	11.7	11.4	2.6	13.3	65.0	86.1	80.7	82.1
14	Canterbury Yellow Dent (Semesan Jr.).....	11.6	11.3	2.3	12.9	62.5	82.8	80.0	80.7
15	Illinois Hybrid 54.....	10.6	10.3	2.9	12.9	78.0	103.3	72.9	80.5
16	Canterbury Yellow Dent (untreated).....	10.0	9.7	3.1	13.6	66.5	88.1	68.7	73.6
	● Average of 5 best open-pollinated var.....	8.7	8.4	2.4	13.1	69.6	92.2	59.5	67.7
17	Golden Beauty.....	7.2	7.0	2.6	13.1	70.0	92.7	49.6	60.4
18	Bunning White Dent.....	6.5	6.3	2.1	12.8	69.5	92.0	44.6	56.5
19	Eversole White Dent.....	5.5	5.3	2.5	13.2	70.5	93.4	37.5	51.5
20	Rice White Dent (Barbak).....	4.9	4.8	0.8	13.3	65.5	86.7	34.0	47.2
21	Rice White Dent (Semesan Jr.).....	4.0	3.9	0.6	12.9	65.0	86.1	27.6	42.2
22	Rice White Dent (untreated).....	3.6	3.4	3.7	13.3	61.0	80.8	24.1	38.3
	Average of division.....	13.0	12.6	2.5	13.1	73.2	97.0	89.5	91.4
Experimental division—entries not in commercial production									
1	Illinois Hybrid 46.....	24.6	23.9	2.7	12.4	83.0	109.9	169.2	154.4
2	Indiana Hybrid 829.....	21.5	21.0	2.3	13.3	80.0	105.9	148.7	138.0
3	Indiana Hybrid 692.....	20.2	19.9	1.8	12.7	85.5	113.2	140.9	134.0
4	Funk Hybrid 211.....	19.2	18.7	2.7	13.2	80.0	105.9	132.4	125.8
5	Funk Hybrid 218.....	18.1	17.7	2.2	13.0	94.0	124.5	125.3	125.1
6	Illinois Hybrid 78.....	19.1	18.6	2.8	13.5	68.5	90.7	131.7	121.5
7	Illinois Hybrid 947.....	18.4	17.9	2.4	13.4	77.0	102.0	126.7	120.5
8	Illinois Hybrid 851.....	18.2	17.6	3.3	13.2	74.5	98.7	124.6	118.1
9	Pioneer Hi-Bred 3222.....	19.1	16.8	11.8	14.1	82.5	109.3	118.9	116.5
10	Illinois Hybrid 66.....	17.7	17.4	1.4	13.2	68.5	90.7	123.2	115.1
11	Illinois Hybrid 28.....	16.8	16.4	2.1	13.1	72.5	96.0	116.1	111.1
12	Illinois Hybrid 92.....	13.8	13.5	2.3	12.8	85.0	112.6	95.6	99.9
13	Illinois Hybrid 100.....	13.1	12.7	3.0	13.2	82.0	108.6	89.9	94.6
14	Illinois Hybrid 7.....	13.2	12.9	2.2	13.0	77.0	102.0	91.3	94.0
15	Illinois Hybrid 37.....	13.5	13.2	1.7	12.8	71.0	94.0	93.5	93.6
16	Illinois Hybrid 89.....	12.4	11.8	4.9	13.5	67.0	88.7	83.5	84.8
17	Illinois Hybrid 95.....	9.7	9.2	5.3	12.7	81.5	107.9	65.1	75.8
18	Illinois Hybrid 45.....	8.2	7.7	7.1	13.7	80.0	105.9	54.5	67.4
	Average of division.....	16.5	15.9	3.4	13.2	78.3	103.7	112.8	110.6
	Average of all entries.....	14.6	14.1	2.9	13.1	75.5	....	....	....

TABLE 17.—SULLIVAN, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Iowa Hybrid 13.....	44.2	42.7	3.4	19.3	47.0	80.8	130.3	117.9
2	Illinois Hybrid 960.....	43.5	43.0	1.3	16.8	45.0	77.4	131.3	117.8
3	Illinois Hybrid 710.....	40.6	38.9	4.2	18.5	53.5	92.0	118.7	112.0
4	Illinois Hybrid 945.....	40.2	38.3	4.6	17.1	54.5	93.7	116.9	111.1
5	Funk Hybrid 235.....	38.8	37.5	3.4	17.5	55.5	95.4	114.5	109.7
6	Funk Hybrid 244.....	41.2	40.9	0.8	17.9	36.0	61.9	124.8	109.1
7	Illinois Hybrid 582.....	40.4	38.3	5.3	18.8	48.0	82.5	116.9	108.3
8	Illinois Hybrid 54.....	35.0	33.6	4.0	18.8	68.0	116.9	102.6	106.2
9	Illinois Hybrid 538.....	35.8	34.4	3.9	18.1	62.5	107.5	105.0	105.6
10	Funk Hybrid 207.....	35.2	33.8	3.8	17.4	59.5	102.3	103.2	103.0
11	Funk Hybrid 275.....	33.7	31.8	5.6	17.4	58.0	99.7	97.1	97.8
12	Rice White Dent.....	31.9	31.0	3.0	20.4	58.0	99.7	94.6	95.9
13	Illinois Hybrid 152.....	32.2	30.1	4.3	19.6	57.5	98.9	94.0	95.2
14	Funk Hybrid 220L.....	31.9	30.7	3.7	18.4	48.0	82.5	93.7	90.9
15	Shuman Golden Beauty (untreated).....	26.7	26.1	2.4	22.4	61.0	104.9	79.7	86.0
●	Average of 5 best open-pollinated var.....	27.0	26.0	3.7	21.0	57.7	99.2	79.3	84.3
16	Shuman Golden Beauty (Barbak).....	25.9	25.3	2.4	21.0	56.5	97.2	77.2	82.2
17	Shuman Golden Beauty (Semesan Jr.).....	25.9	25.1	3.3	22.4	56.5	97.2	76.6	81.8
18	Bunning White Dent.....	25.9	24.5	5.3	20.4	58.0	99.7	74.8	81.0
19	Canterbury Yellow Dent.....	25.7	25.0	2.5	22.4	52.5	90.3	76.3	79.8
20	Station Yellow Dent.....	24.6	23.3	5.2	19.6	59.0	101.5	71.1	78.7
21	Eversole White Dent.....	25.2	23.4	7.1	19.2	51.5	88.6	71.4	75.7
	Average of division.....	33.5	32.3	3.8	19.2	54.6	93.8	98.6	97.3
Experimental division—entries not in commercial production									
1	Illinois Hybrid 947.....	45.3	42.4	6.3	17.3	61.5	105.8	129.4	123.5
2	Funk Hybrid 211.....	41.3	39.0	5.4	20.0	62.5	107.5	119.0	116.1
3	Indiana Hybrid 692.....	38.5	35.8	6.9	17.9	74.0	127.3	109.3	113.8
4	Illinois Hybrid 78.....	38.1	36.5	4.4	18.2	64.0	110.1	111.4	111.1
5	Indiana Hybrid 829.....	33.4	31.3	6.0	18.1	85.0	146.2	95.5	108.2
6	Illinois Hybrid 89.....	37.8	35.3	6.6	20.6	62.5	107.5	107.8	107.7
7	Illinois Hybrid 45.....	32.8	32.2	2.0	19.4	77.5	133.3	98.3	107.1
8	Illinois Hybrid 28.....	39.1	37.0	5.4	18.6	51.5	88.6	112.9	106.8
9	Illinois Hybrid 7.....	35.4	35.0	1.2	17.1	61.0	104.9	106.8	106.3
10	Illinois Hybrid 46.....	35.2	34.8	1.3	15.3	56.0	96.3	106.2	103.7
11	Illinois Hybrid 851.....	37.0	34.9	5.7	20.2	50.0	86.0	106.5	101.4
12	Pioneer Hi-Bred 3222.....	30.4	29.0	4.5	21.5	81.5	140.2	88.5	101.4
13	Illinois Hybrid 95.....	33.6	32.6	2.9	18.6	60.0	103.2	99.5	100.4
14	Illinois Hybrid 100.....	32.2	30.9	4.0	19.0	69.0	118.7	94.3	100.4
15	Illinois Hybrid 92.....	31.3	31.1	0.7	17.6	60.0	103.2	94.9	97.0
16	Illinois Hybrid 18.....	30.2	29.6	2.1	17.8	59.5	102.3	90.4	93.4
17	Illinois Hybrid 37.....	33.9	31.0	8.5	18.9	44.0	75.7	94.6	89.9
18	Illinois Hybrid 90.....	33.1	31.8	4.0	19.4	53.0	91.1	97.1	95.6
19	Mayfield Top Cross.....	22.3	21.8	2.4	19.3	47.5	81.7	66.5	70.3
	Average of division.....	34.8	33.3	4.2	18.7	62.1	106.8	101.5	102.8
	Average of all entries.....	34.1	32.7	4.0	19.0	58.2	....	....	....

TABLE 18.—ALHAMBRA, SOUTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
1	St. Charles White.....	10.6	10.5	1.2	14.0	41.0	67.9	126.4	111.8
2	Funk Hybrid 207.....	9.4	9.3	1.2	11.7	66.5	110.2	111.9	111.5
●	Average of 5 best open-pollinated var...	8.0	7.9	1.1	13.6	44.6	73.9	95.1	89.8
3	Moore Yellow Dent.....	7.4	7.1	3.0	13.8	55.0	91.1	85.4	86.8
4	Blackhawk.....	8.0	8.0	.2	13.2	34.0	56.3	96.3	86.3
5	Shuman Golden Beauty.....	7.5	7.5	0	12.8	40.0	66.3	90.2	84.2
6	Waddell Golden Beauty.....	6.5	6.4	1.0	14.2	53.0	87.8	77.0	79.7
7	Pride of Saline.....	6.6	6.5	.9	13.5	47.5	78.7	78.2	78.3
8	Station Yellow Dent.....	5.8	5.8	.2	13.5	57.0	94.4	69.8	76.0
9	Waddell Golden Dent.....	5.9	5.8	.9	12.6	51.5	85.3	69.8	73.7
10	Champion White Pearl.....	5.3	5.3	.4	13.9	47.0	77.9	63.8	67.3
11	Helm Yellow Dent (Barbak).....	5.3	5.1	3.0	13.2	49.5	82.0	61.4	66.6
12	Helm Yellow Dent (Semesan Jr.).....	5.0	4.9	1.3	13.4	46.0	76.2	59.0	63.3
13	Helm Yellow Dent (untreated).....	5.0	5.0	.7	13.8	41.5	68.8	60.2	62.4
14	Leaming (untreated).....	2.9	2.9	.7	15.8	43.0	71.3	34.9	44.0
15	Leaming (Barbak).....	2.5	2.4	2.2	15.9	44.5	73.7	28.9	40.1
16	Leaming (Semesan Jr.).....	1.8	1.8	1.2	16.8	39.0	64.6	21.7	32.4
	Average of division.....	6.0	5.9	1.1	13.9	47.3	78.3	70.9	72.8
Experimental division—entries <i>not</i> in commercial production									
1*	Funk Hybrid B-50.....	16.8	16.7	.3	13.3	61.0	101.1	201.0	176.0
2	Illinois Hybrid 90.....	14.1	14.0	.4	12.6	82.5	136.7	168.5	160.6
3	Illinois Hybrid 28.....	13.3	13.2	.7	12.5	76.0	125.9	158.8	150.6
4	Illinois Hybrid 89.....	12.9	12.8	.6	13.2	66.5	110.2	154.0	143.0
5	Illinois Hybrid 66.....	12.0	11.9	1.0	12.3	78.0	129.2	143.2	139.7
6	Illinois Hybrid 48.....	11.1	11.1	.3	12.3	84.0	139.2	133.6	135.0
7	Funk Hybrid 211.....	11.2	11.2	.2	12.6	73.5	121.8	134.8	131.6
8	Illinois Hybrid 95.....	11.4	11.3	.8	13.0	69.0	114.3	136.0	130.6
9	Illinois Hybrid 10.....	11.2	11.1	1.2	12.5	66.0	109.4	133.6	125.9
10	Illinois Hybrid 37.....	10.6	10.5	.6	13.5	70.5	116.8	126.4	124.0
11	Illinois Hybrid 78.....	10.1	10.0	.7	13.6	80.5	133.4	120.3	123.6
12	Illinois Hybrid 70.....	10.6	10.4	1.6	12.1	72.0	119.3	125.2	123.5
13	Illinois Hybrid 19.....	8.9	8.9	.5	11.9	69.5	115.2	107.1	109.1
14	Funk Hybrid B-49.....	8.4	8.3	.6	12.6	65.5	108.5	99.9	102.1
15	Illinois Hybrid 96.....	7.6	7.5	1.1	13.2	65.5	108.5	90.3	94.9
16	Illinois Hybrid 77.....	6.0	6.0	.2	12.4	77.5	128.4	72.2	86.3
17	Illinois Hybrid 45.....	5.2	5.1	1.0	13.1	78.0	129.2	61.4	78.4
	Average of division.....	10.7	10.6	.7	12.7	72.7	120.4	127.4	125.6
	Average of all entries.....	8.4	8.3	.9	13.3	60.3	....	....	....

*Average of 5 plots instead of 10.

TABLE 19.—ALBION, SOUTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>			<i>perct.</i>	
1	Illinois Hybrid 960.....	44.1	42.7	3.1	15.2			136.6	127.5
2	Illinois Hybrid 945.....	38.2	37.6	1.6	15.4			120.3	115.2
3	Funk Hybrid 235.....	36.4	35.6	2.1	15.3			113.9	110.4
4	Illinois Hybrid 582.....	35.2	34.7	1.6	14.3			111.0	108.3
5	Eversole White Dent.....	32.6	31.8	2.2	15.6			101.7	101.3
6	Moore Yellow Dent.....	33.0	31.5	4.6	16.1			100.8	100.6
●	Average of 5 best open-pollinated var...	31.5	30.3	3.8	16.1			96.9	97.7
7	Wilson Yellow Dent.....	32.0	30.2	5.5	15.6			96.6	97.5
8	Illinois Hybrid 710A.....	30.3	29.8	1.4	18.4			95.3	96.5
9	Helm Yellow Dent (untreated).....	30.4	29.5	3.0	16.7			94.4	95.8
10	Helm Yellow Dent (Barbak).....	30.7	29.4	4.1	16.7			94.1	95.6
11	Helm Yellow Dent (Semesan Jr.).....	30.3	29.3	3.3	17.8			93.7	95.3
12	Pride of Saline.....	29.6	28.7	3.1	16.7			91.8	93.9
13	Leaming (Barbak).....	29.9	28.6	4.4	21.5			91.5	93.6
14	Illinois Hybrid 54.....	29.4	28.1	4.4	15.6			89.9	92.4
15	Illinois Hybrid 538.....	28.4	26.8	5.5	14.7			85.7	89.3
16	Illinois Hybrid 152.....	27.6	26.6	3.6	15.6			85.1	88.8
17	Golden Beauty.....	26.5	25.6	3.2	14.8			81.9	86.4
18	Leaming (untreated).....	26.8	24.6	8.3	21.8			78.7	84.0
19	Leaming (Semesan Jr.).....	24.0	23.2	3.3	21.5			74.2	80.7
	Average of division.....	31.3	30.2	3.6	16.8			96.7	97.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 784.....	38.9	37.6	3.3	18.5			120.3	115.2
2	Illinois Hybrid 947.....	38.0	37.1	2.4	14.7			118.7	114.0
3	Funk Hybrid 211.....	36.8	36.1	1.9	14.0			115.5	111.6
4	Illinois Hybrid 126.....	36.1	34.8	3.7	16.7			111.3	108.5
5	Illinois Hybrid 141.....	33.9	33.4	1.4	15.4			106.9	105.2
6	Illinois Hybrid 102.....	34.3	32.5	5.3	15.6			104.0	103.0
7	Illinois Hybrid 134.....	33.2	32.3	2.7	14.6			103.3	102.5
8	Funk Hybrid B-50.....	32.3	31.6	2.2	16.0			101.1	100.8
9	Illinois Hybrid 894.....	32.2	31.1	3.5	13.8			99.5	99.6
10	Illinois Hybrid 832.....	30.3	29.3	3.3	13.3			93.7	95.3
11	Illinois Hybrid 852.....	28.6	27.6	3.3	13.7			88.3	91.2
	Average of division.....	34.1	33.0	3.0	15.1			105.7	104.3
	Average of all entries.....	32.3	31.3	3.4	16.2			....	....

(Summary of Hybrid Performance—Tables 20 to 23)

TABLE 20.—TWO-YEAR SUMMARY, NORTHERN ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Stockton, Rochelle, and Plainfield)			(Stockton, Kings, and Plainfield)			
		<i>perct.</i>	<i>bu.</i>		<i>perct.</i>	<i>bu.</i>		
1	DeKalb Hybrid 93.....	75.2	98.1	112.5	83.7	57.3	105.2	108.9
2	Illinois Hybrid 368.....	80.2	93.6	109.8	84.7	58.5	107.2	108.5
3	Illinois Hybrid 751.....	92.3	90.4	110.6	85.8	57.3	105.9	108.2
4	Illinois Hybrid 366.....	84.2	93.1	110.6	77.8	58.0	104.2	107.4
5	Illinois Hybrid 586.....	91.4	91.0	110.8	89.2	53.2	101.4	106.1
6	Pioneer Hi-Bred 311.....	86.5	85.1	104.0	83.3	57.3	105.1	104.6
7	Pioneer Hi-Bred 323.....	78.3	91.3	107.2	72.8	56.6	100.8	104.0
8	DeKalb Hybrid 3A.....	86.3	85.9	104.6	69.7	59.0	103.0	103.8
9	DeKalb Hybrid 97.....	86.2	89.5	107.9	87.3	52.2	99.4	103.7
10	Iowa Hybrid 931.....	78.4	86.8	103.1	79.0	56.0	101.9	102.5
11	DeKalb Hybrid 119.....	82.5	88.1	105.5	70.2	55.5	98.4	102.0
12	Funk Hybrid 215.....	84.2	83.0	101.4	85.3	50.5	96.5	99.0
13	DeKalb Hybrid 118.....	80.0	83.8	100.9	64.3	53.4	93.7	97.3
14	Funk Hybrid 214.....	85.2	79.7	98.7	84.7	49.1	94.3	96.5
	Average of 5 best open-pollinated varieties.....	73.2	76.9	92.5	57.8	45.4	80.6	86.6

TABLE 21.—TWO-YEAR SUMMARY, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Cambridge, Granville, and Dwight)			(Cambridge, Henry, and Dwight)			
		<i>perct.</i>	<i>bu.</i>		<i>perct.</i>	<i>bu.</i>		
1	Illinois Hybrid 960.....	89.3	107.5	112.1	81.0	59.1	118.2	115.1
2	Illinois Hybrid 366.....	98.7	104.1	112.1	82.6	53.3	109.6	110.9
3	Illinois Hybrid 364.....	84.0	106.0	109.4	72.5	55.9	110.5	110.0
3	Illinois Hybrid 360.....	89.3	107.9	112.4	86.5	51.1	107.5	110.0
4	U. S. Hybrid 44.....	94.5	96.2	104.3	84.7	54.7	112.5	108.4
5	Iowa Hybrid 3110.....	88.3	105.4	110.1	86.4	50.5	106.5	108.3
6	Pfister Hybrid 4857.....	85.4	103.4	107.7	75.1	53.3	107.2	107.4
7	Illinois Hybrid 936.....	94.3	101.4	108.6	83.6	50.7	105.9	107.2
8	Illinois Hybrid 570.....	91.0	101.7	108.0	80.9	50.9	105.3	106.7
9	Illinois Hybrid 751.....	94.7	101.1	108.5	79.5	50.3	104.0	106.2
10	Illinois Hybrid 384.....	92.2	99.1	106.2	84.5	49.3	103.9	105.0
11	Illinois Hybrid 172.....	90.3	97.5	104.4	83.6	46.1	98.7	101.6
12	Illinois Hybrid 371.....	88.8	102.6	108.0	73.8	44.7	93.1	100.6
13	Lowealth Hybrid C.....	85.8	83.2	91.7	71.1	52.4	106.5	99.1
14	Funk Hybrid 214.....	89.0	91.6	99.3	81.3	45.4	90.9	98.1
15	Funk Hybrid 215.....	86.4	91.0	98.1	81.5	46.1	98.0	98.0
16	Pioneer Hi-Bred 311A.....	90.6	87.0	96.1	81.6	45.3	96.8	96.4
17	Funk Hybrid 220.....	97.4	93.6	103.3	74.2	38.8	84.3	93.8
18	Pioneer Hi-Bred 311.....	89.9	84.3	93.7	80.3	42.5	92.0	92.9
19	Morgan-Wallace Hybrid 138.....	87.5	83.2	92.2	70.4	44.5	92.0	92.1
	Average of 5 best open-pollinated varieties.....	67.3	86.9	89.2	69.1	39.6	83.9	86.6

TABLE 22.—TWO-YEAR SUMMARY, CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Adair, Bellflower, and Armstrong)			(Adair, Stanford, and Armstrong)			
		<i>perct.</i>	<i>bu.</i>		<i>perct.</i>	<i>bu.</i>		
1	Illinois Hybrid 960.....	71.1	95.7	112.5	86.5	50.4	119.1	115.8
2	U. S. Hybrid 44.....	76.0	94.9	113.6	93.0	44.7	110.5	112.1
3	Illinois Hybrid 360A.....	66.8	93.0	108.5	89.2	44.5	109.0	108.8
4	Illinois Hybrid 360.....	72.8	91.9	109.7	84.8	41.7	102.6	106.2
5	Illinois Hybrid 546.....	79.4	86.1	107.0	92.2	38.3	98.5	102.8
6	Illinois Hybrid 543.....	66.5	84.0	100.3	85.0	42.9	104.8	102.6
7	Illinois Hybrid 384.....	87.5	84.4	108.4	84.7	38.5	96.6	102.5
8	Pioneer Hi-Bred 311A.....	67.6	78.3	95.6	82.7	42.7	103.7	99.7
9	Pioneer Hi-Bred 311.....	75.8	81.0	101.0	84.3	39.0	97.4	99.2
10	Illinois Hybrid 172.....	72.8	84.1	102.7	83.7	36.1	91.9	97.3
11	Funk Hybrid 220L.....	73.1	80.6	99.7	75.0	34.6	86.5	93.1
12	Funk Hybrid 220.....	68.8	79.6	97.2	68.3	33.9	83.1	90.2
	Average of 5 best open-pollinated varieties.....	45.1	73.4	82.8	65.3	32.1	78.9	80.9

TABLE 23.—TWO-YEAR SUMMARY, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Winchester and Sullivan)			(Franklin and Sullivan)			
		<i>perct.</i>	<i>bu.</i>		<i>perct.</i>	<i>bu.</i>		
1	Illinois Hybrid 960.....	73.1	79.7	135.7	63.3	33.2	126.4	131.1
2	Illinois Hybrid 947.....	62.3	72.1	120.8	69.3	30.2	119.4	120.1
3	Illinois Hybrid 710.....	63.8	71.3	120.5	60.0	27.4	107.2	113.9
4	Illinois Hybrid 945.....	56.8	70.7	116.4	66.5	27.9	111.2	113.8
5	Illinois Hybrid 538.....	54.2	68.2	111.9	69.3	26.8	108.8	110.4
6	Funk Hybrid 220L.....	64.0	68.4	117.1	62.5	24.2	98.2	107.7
7	Funk Hybrid 207.....	60.8	68.6	115.7	66.3	23.2	96.5	106.1
8	Illinois Hybrid 54.....	56.1	65.8	109.9	73.0	22.0	95.3	102.6
	Average of 5 best open-pollinated varieties.....	41.2	59.4	94.5	63.2	17.3	77.1	85.8

(Silage Tests—Tables 24 and 25)

TABLE 24.—SILAGE TEST: MAPLE PARK, NORTHERN ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield of dry matter			Moisture in plants at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Blades	Ears			Lodging resistance	Total yield	
Regular division—entries in commercial production									
		<i>tons</i>	<i>tons</i>	<i>tons</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 372.....	4.00	.95	2.23	73.7	84.4	94.9	118.9	112.9
2	Illinois Hybrid 945A.....	3.94	1.12	1.93	74.9	83.6	94.0	117.1	111.7
3	Illinois Hybrid 364.....	3.64	.98	1.81	73.8	89.8	101.0	108.2	106.4
4	Illinois Hybrid 546.....	3.61	1.13	1.47	73.3	91.6	103.0	107.3	106.2
5	Illinois Hybrid 339.....	3.64	.94	1.81	71.9	87.4	98.3	108.2	105.7
6	Illinois Hybrid 543.....	3.16	.90	1.40	73.0	96.4	108.4	93.9	97.5
7	DeKalb Hybrid 3A.....	3.05	.72	1.58	68.0	95.2	107.0	90.7	94.8
8	DeKalb Illinois Hybrid 366.....	3.04	.82	1.59	71.3	89.8	101.0	90.4	93.1
9	Gunn Western Plowman.....	3.02	.89	1.47	68.8	71.2	80.1	89.8	87.4
	Average of division.....	3.46	.94	1.70	72.1	87.7	98.6	102.7	101.7
Experimental division—entries <i>not</i> in commercial production									
1	Illinois Hybrid 153.....	4.35	1.24	2.23	73.0	92.4	103.9	129.3	123.0
2	Illinois Hybrid 161.....	3.82	1.03	1.94	74.4	95.6	107.5	113.6	112.1
3	Illinois Hybrid 324.....	3.82	.89	2.22	68.6	88.8	99.8	113.6	110.2
4	Illinois Hybrid 4006.....	3.81	1.03	1.95	76.3	89.2	100.3	113.3	110.1
5	Illinois Hybrid 4004.....	3.36	.92	1.71	73.7	89.6	100.7	99.9	100.1
6	Illinois Hybrid 151.....	3.32	.95	1.79	74.3	92.8	104.3	98.7	100.1
7	Illinois Hybrid 4002.....	3.18	.97	1.36	74.3	86.4	97.1	94.5	95.2
8	Illinois Hybrid 4005.....	3.09	.94	1.39	75.8	88.4	99.4	91.9	93.8
9	Illinois Hybrid 159.....	2.94	.81	1.44	76.5	94.4	106.1	87.1	91.9
10	Illinois Hybrid 134.....	2.65	.81	1.15	74.1	90.8	102.1	78.8	84.6
11	Illinois Hybrid 4001.....	2.62	.84	1.09	73.4	86.8	97.6	77.9	82.8
12	Illinois Hybrid 4003.....	2.59	.74	1.16	74.1	83.2	93.5	77.0	81.1
	Average of division.....	3.05	.93	1.62	74.0	89.9	101.0	98.0	98.8
	Average of all entries.....	3.36	.93	1.65	73.2	88.9	....	....	....

TABLE 25.—SILAGE TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield of dry matter			Moisture in plants at harvest	Erect plants	Performance rating for—	
		Total	Blades	Ears			Lodging resist- ance	Total yield
Regular division—entries in commercial production								
		<i>tons</i>	<i>tons</i>	<i>tons</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 710.....	2.91	.53	2.16	67.7	....	....	113.2
2	Illinois Hybrid 391.....	2.78	.54	1.21	68.6	68.7	88.3	108.2
3	Illinois Hybrid 172.....	2.47	.56	1.44	65.1	77.4	99.5	96.1
4	Illinois Hybrid 546.....	2.45	.62	1.28	69.0	90.1	115.8	95.3
5	Funk Hybrid 220.....	2.16	.51	1.20	63.3	76.9	98.8	84.0
6	Illinois Hybrid 543.....	2.09	.63	1.10	66.1	85.2	109.5	81.3
7	Station Yellow Dent.....	2.07	.53	1.10	67.6	62.3	80.0	80.5
7	Illinois Hybrid 384.....	2.07	.50	1.14	69.3	84.2	108.2	80.5
8	Illinois Hybrid 372.....	1.70	.37	.94	70.8	....	....	66.1
	Average of division.....	2.30	.53	1.28	67.5	77.8	100.0	89.5
Experimental division—entries <i>not</i> in commercial production								
1	Illinois Hybrid 4003.....	4.19	1.14	2.20	65.4	54.2	69.7	163.0
2	Illinois Hybrid 4006.....	3.74	1.06	1.60	69.1	62.6	80.5	145.5
3	Illinois Hybrid 355.....	3.12	.71	2.22	64.4	92.8	119.3	121.4
4	Illinois Hybrid 147.....	2.73	.69	1.65	64.7	85.1	109.4	106.2
5	Illinois Hybrid 39.....	2.71	.58	1.67	68.7	77.5	99.6	105.4
6	Illinois Hybrid 99.....	2.43	.67	1.42	68.7	....	....	94.6
7	Illinois Hybrid 121.....	2.42	.63	1.32	67.8	....	....	94.2
8	Illinois Hybrid 156.....	2.30	.40	1.22	73.4	94.8	121.9	89.5
8	Illinois Hybrid 129.....	2.30	.56	1.13	65.7	....	....	89.5
9	Illinois Hybrid 151.....	2.27	.57	1.29	72.2	....	....	88.3
	Average of division.....	2.82	.70	1.57	68.0	77.8	100.0	109.8
	Average of all entries.....	2.57	.62	1.44	67.8	77.8	....	....

*Since data on percentage of erect plants were not available for all entries, the ranking was based upon performance rating for total yield.

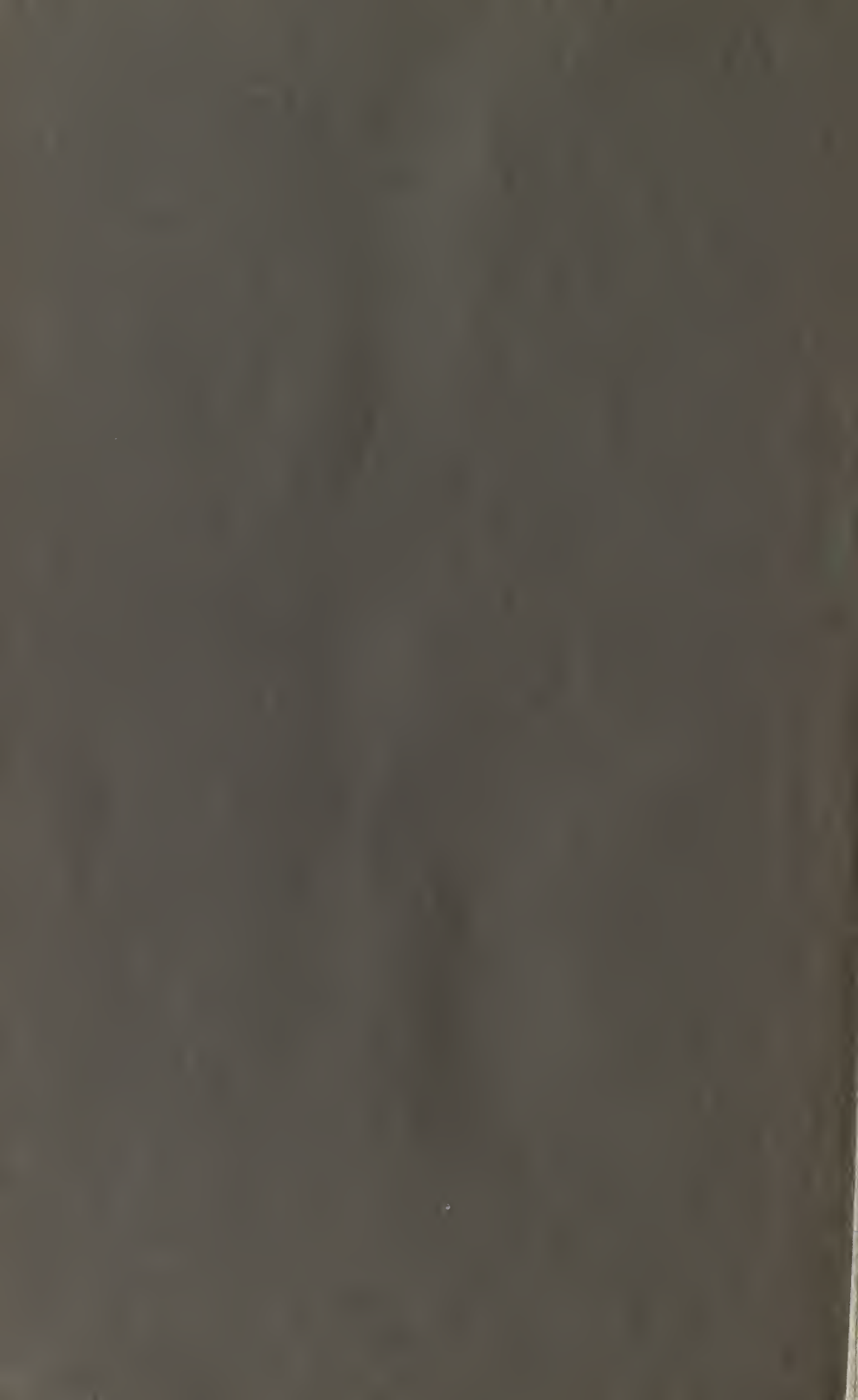
(Soil-Adaptation Tests—Tables 26 and 27)

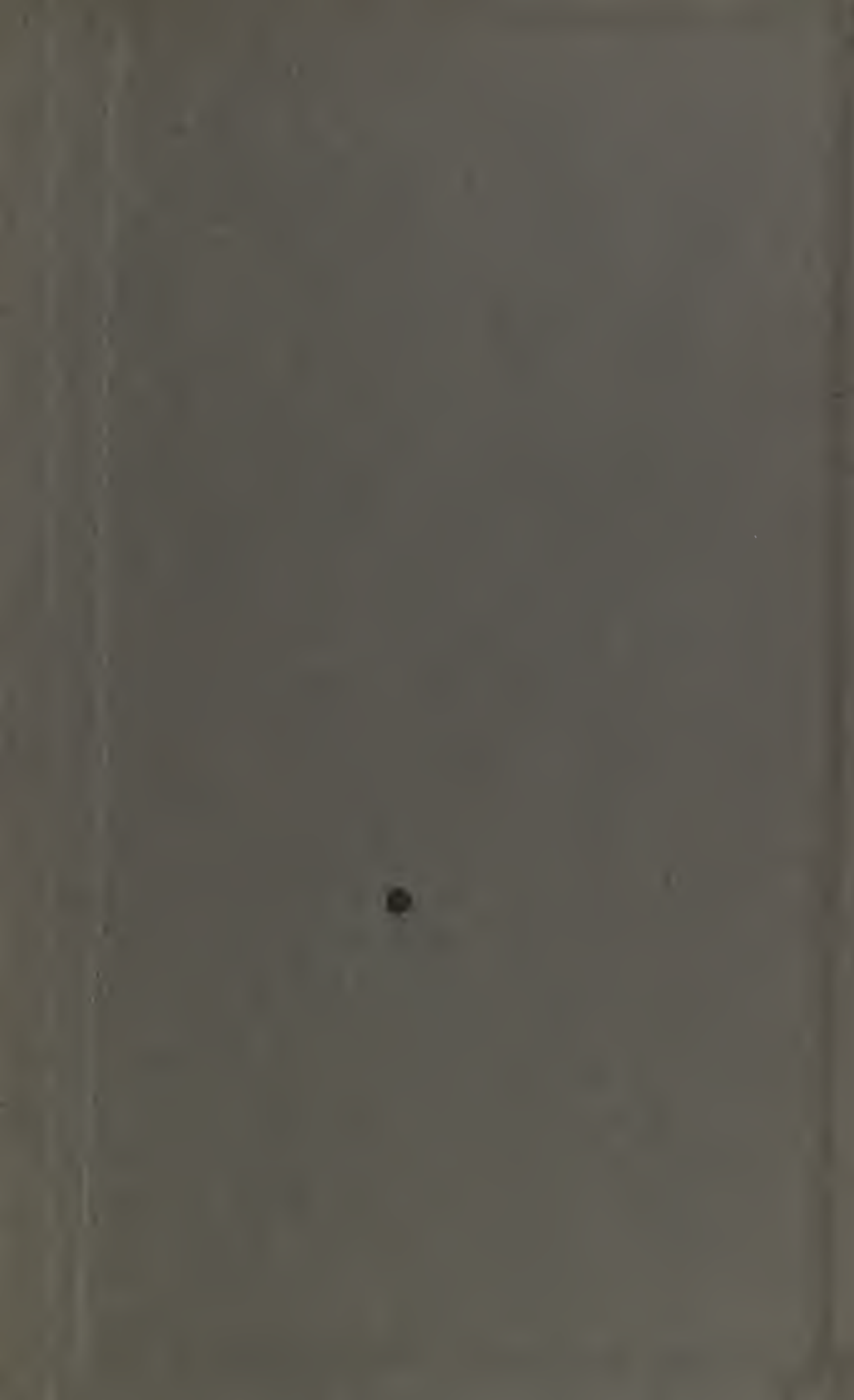
TABLE 26.—SOIL-ADAPTATION TEST: SIBLEY, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON ELLIOTT AND PROCTOR SILT LOAMS

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—	
		Total	Sound				Lodging resistance	Sound yield
Farm 41—Proctor silt loam, productivity high								
		bu.	bu.	perct.	perct.			perct.
1	Illinois Hybrid 960.....	69.0	67.1	2.7	20.5			121.6
2	Illinois Hybrid 139.....	70.1	67.0	4.4	21.8			121.4
3	U. S. Hybrid 44.....	69.4	66.5	4.2	22.5			120.5
4	Illinois Hybrid 92.....	66.3	65.2	1.7	21.8			118.1
5	Illinois Hybrid 133.....	65.3	63.1	3.3	21.8			114.3
6	Illinois Hybrid 141.....	64.0	62.3	2.6	22.5			112.9
7	Illinois Hybrid 543.....	64.9	62.2	4.2	21.4			112.7
8	Illinois Hybrid 944.....	62.6	60.5	3.3	21.8			109.6
9	Illinois Hybrid 588.....	61.1	58.5	4.2	21.5			106.0
9	Illinois Hybrid 135.....	63.0	58.5	7.1	20.7			106.0
10	Illinois Hybrid 762.....	59.6	57.9	2.9	21.8			104.9
11	Illinois Hybrid 391.....	59.9	57.7	3.6	22.0			104.5
12	Illinois Hybrid 392.....	59.5	57.4	3.5	22.4			104.0
13	Illinois Hybrid 152.....	58.4	56.4	3.4	22.7			102.2
14	Illinois Hybrid 161.....	57.5	54.1	5.9	22.7			98.0
15	Illinois Hybrid 546.....	56.1	52.8	5.9	21.5			95.7
16	Meyers Yellow Dent.....	53.4	52.7	1.3	20.7			95.5
17	Illinois Hybrid 384.....	52.4	50.0	4.5	22.6			90.6
18	Illinois Hybrid 172.....	50.4	49.5	1.7	20.7			89.7
19	Station Yellow Dent.....	50.4	48.7	3.4	23.0			88.2
20	Carters Yellow Dent.....	49.5	48.6	1.8	22.4			88.0
21	Staffen Yellow Dent.....	45.3	44.3	2.1	20.5			80.3
22	Otto Yellow Dent.....	44.9	44.1	1.8	21.8			79.9
23	Sibley composite.....	43.8	42.4	3.1	21.3			76.8
24	Stevenson Yellow Dent.....	38.4	33.4	7.9	25.2			60.5
	Average of all entries.....	57.4	55.2	3.6	21.9			100.0
	Average of 18 hybrids and Station Yellow Dent.....	61.0	58.7	3.8	21.9			106.4
	Station Yellow Dent.....	50.4	48.7	3.4	23.0			88.2
Farm 92—Elliott silt loam, productivity low								
1	Illinois Hybrid 960.....	39.2	38.8	.9	22.7			152.8
2	Illinois Hybrid 588.....	32.5	31.9	1.7	25.2			125.6
3	Illinois Hybrid 543.....	34.4	31.4	8.8	24.4			123.6
4	Illinois Hybrid 141.....	32.0	30.1	6.0	25.4			118.5
5	Illinois Hybrid 152.....	30.8	29.0	5.8	26.9			114.2
6	U. S. Hybrid 44.....	30.8	28.7	6.9	24.4			113.0
7	Illinois Hybrid 133.....	28.9	27.0	6.6	26.0			106.3
8	Illinois Hybrid 546.....	28.2	26.8	4.8	23.2			105.5
9	Illinois Hybrid 391.....	28.1	26.8	4.6	24.0			105.5
9	Illinois Hybrid 172.....	26.6	26.4	.6	22.7			103.9
10	Illinois Hybrid 135.....	27.6	25.9	6.3	23.4			102.0
11	Illinois Hybrid 139.....	27.7	25.0	9.8	26.0			98.4
12	Illinois Hybrid 944.....	26.0	24.6	5.4	23.9			96.9
13	Illinois Hybrid 384.....	26.4	24.5	7.1	23.6			96.4
14	Illinois Hybrid 762.....	24.9	23.8	4.4	24.4			93.7
14	Station Yellow Dent.....	25.6	23.8	6.9	25.2			93.7
15	Meyers Yellow Dent.....	24.2	23.5	2.8	23.5			92.5
16	Illinois Hybrid 92.....	25.2	23.2	8.0	24.7			91.3
17	Otto Yellow Dent.....	24.0	22.9	4.5	23.0			90.1
18	Illinois Hybrid 392.....	24.3	22.7	6.7	23.0			89.4
19	Staffen Yellow Dent.....	23.0	21.6	6.0	22.7			85.0
19	Carter Yellow Dent.....	23.0	21.6	6.2	22.2			85.0
20	Sibley composite.....	20.5	20.1	2.1	22.7			79.1
21	Illinois Hybrid 161.....	23.8	20.0	16.0	24.0			78.7
22	Stevenson Yellow Dent.....	17.3	16.0	7.7	24.4			63.0
	Average of all entries.....	27.0	25.4	5.9	24.1			100.0
	Average of 18 hybrids and Station Yellow Dent.....	28.6	26.9	6.2	23.0			105.8
	Station Yellow Dent.....	25.6	23.8	6.9	25.2			93.7

TABLE 27.—SOIL-ADAPTATION TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON MUSCATINE SILT LOAM

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Southwest rotation, productivity high									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 960.....	64.1	63.5	.9	17.8	72	105.8	121.4	117.5
2	Illinois Hybrid 161.....	58.0	57.0	1.7	18.7	88	129.4	109.0	114.1
3	Illinois Hybrid 139.....	61.1	59.4	2.8	17.9	76	111.7	113.6	113.1
4	Illinois Hybrid 391.....	59.2	58.7	.8	18.8	63	92.6	112.2	107.3
5	Illinois Hybrid 546.....	53.1	52.3	1.6	18.1	81	119.1	100.0	104.8
6	Illinois Hybrid 141.....	59.0	58.2	1.4	19.2	57	83.8	111.3	104.4
7	Illinois Hybrid 135.....	59.5	58.6	1.5	17.9	54	79.4	112.0	103.9
8	Illinois Hybrid 133.....	54.7	54.2	1.0	19.4	71	104.4	103.6	103.8
9	Illinois Hybrid 762.....	56.0	55.4	1.0	18.1	62	91.1	105.9	102.2
10	Illinois Hybrid 92.....	49.5	49.0	1.1	17.8	85	125.0	93.7	101.5
11	Illinois Hybrid 392.....	54.2	53.3	1.7	18.1	61	89.7	101.9	98.9
12	Illinois Hybrid 172.....	49.6	49.2	.8	16.6	71	104.4	94.1	96.7
13	Illinois Hybrid 588.....	53.5	53.2	.5	19.0	52	76.4	101.7	95.4
14	Illinois Hybrid 543.....	48.9	47.0	3.8	20.6	70	102.9	89.9	93.1
15	Illinois Hybrid 944.....	51.7	51.2	1.0	17.6	53	77.9	97.9	92.9
16	Illinois Hybrid 384.....	46.4	44.5	4.0	19.4	75	110.2	85.1	91.4
17	Illinois Hybrid 152.....	44.6	44.1	1.2	19.8	72	105.8	84.3	89.7
18	Station Yellow Dent.....	32.5	32.4	.2	18.5	59	86.7	62.0	68.2
	Average of all entries.....	53.1	52.3	1.5	18.5	68	....	....	....
	Station Yellow Dent.....	32.5	32.4	.2	18.5	59	....	....	....
South-Central rotation, productivity medium									
1	Illinois Hybrid 960.....	51.9	50.6	2.6	16.6	76	100.0	121.9	116.4
2	Illinois Hybrid 139.....	50.5	48.4	4.2	16.9	82	107.9	116.6	114.4
3	Illinois Hybrid 588.....	47.6	47.2	.9	19.3	74	97.4	113.7	109.6
4	Illinois Hybrid 161.....	46.1	43.9	4.8	17.2	91	119.8	105.8	109.3
5	Illinois Hybrid 546.....	43.0	42.1	2.0	17.6	92	121.1	101.4	106.3
6	Illinois Hybrid 135.....	46.0	44.7	2.8	16.1	69	90.8	107.7	103.5
7	Illinois Hybrid 762.....	45.6	44.0	3.6	18.1	72	94.8	106.0	103.2
8	Illinois Hybrid 944.....	44.0	42.4	3.7	18.7	69	90.8	102.2	99.3
9	Illinois Hybrid 172.....	40.4	40.1	.8	16.1	81	106.6	96.6	99.1
10	Illinois Hybrid 92.....	39.6	39.1	1.3	17.8	86	113.2	94.2	98.9
11	Illinois Hybrid 133.....	44.8	43.4	3.1	19.4	61	80.3	104.6	98.5
12	Illinois Hybrid 384.....	40.0	38.7	3.2	16.7	81	106.6	93.2	96.6
13	Illinois Hybrid 141.....	42.0	40.7	3.0	18.8	66	86.9	98.1	95.3
14	Illinois Hybrid 543.....	39.8	38.3	3.7	17.1	79	104.0	92.3	95.2
15	Illinois Hybrid 391.....	42.2	40.1	5.0	17.6	69	90.8	96.6	95.1
16	Illinois Hybrid 392.....	39.8	37.7	5.4	18.4	79	104.0	90.8	94.1
17	Illinois Hybrid 152.....	38.3	37.5	2.0	18.9	78	102.6	90.4	93.4
18	Station Yellow Dent.....	28.4	27.8	2.1	19.1	58	76.3	67.0	69.3
	Average of all entries.....	42.8	41.5	3.0	17.8	76
	Station Yellow Dent.....	28.4	27.8	2.1	19.1	58





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